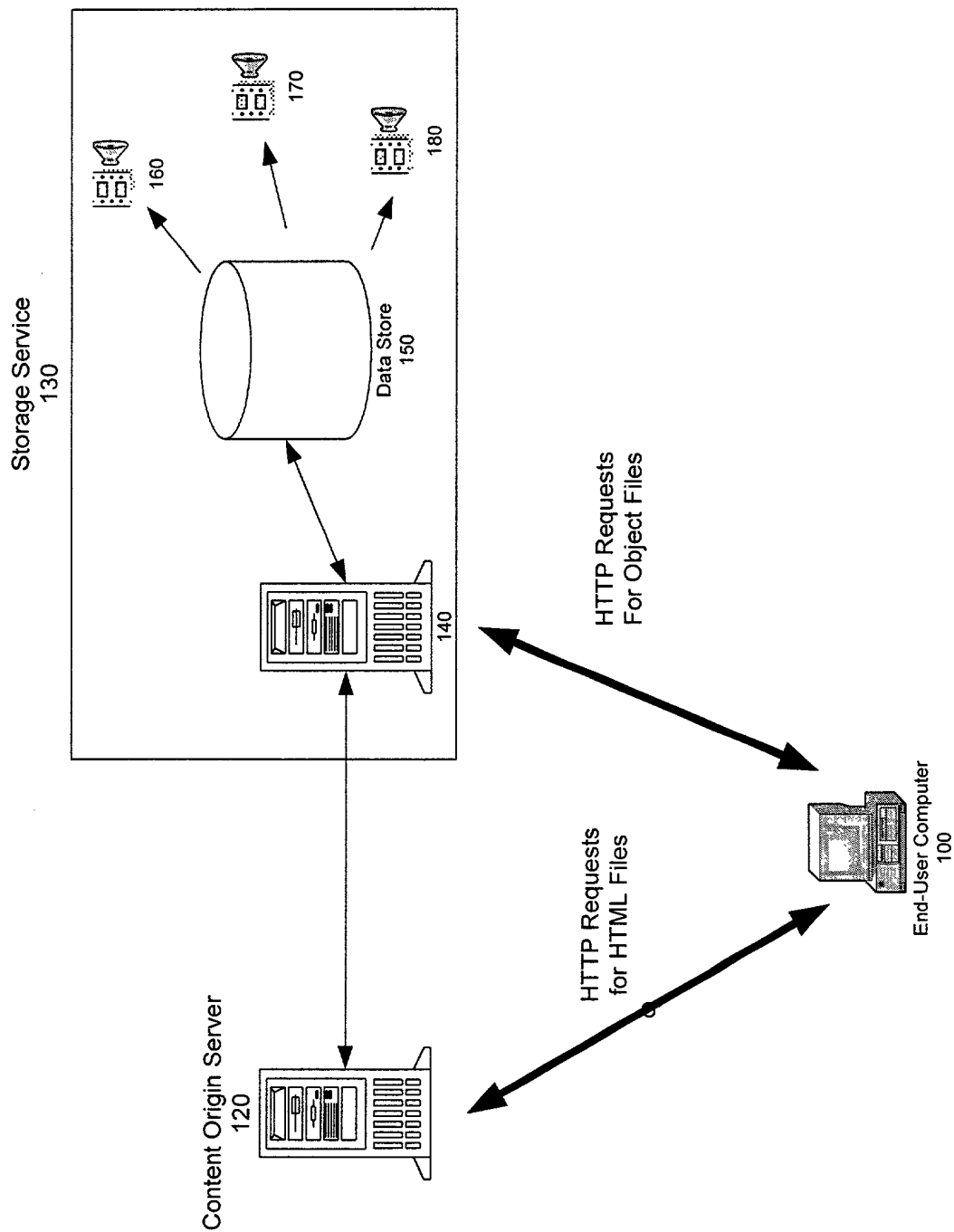
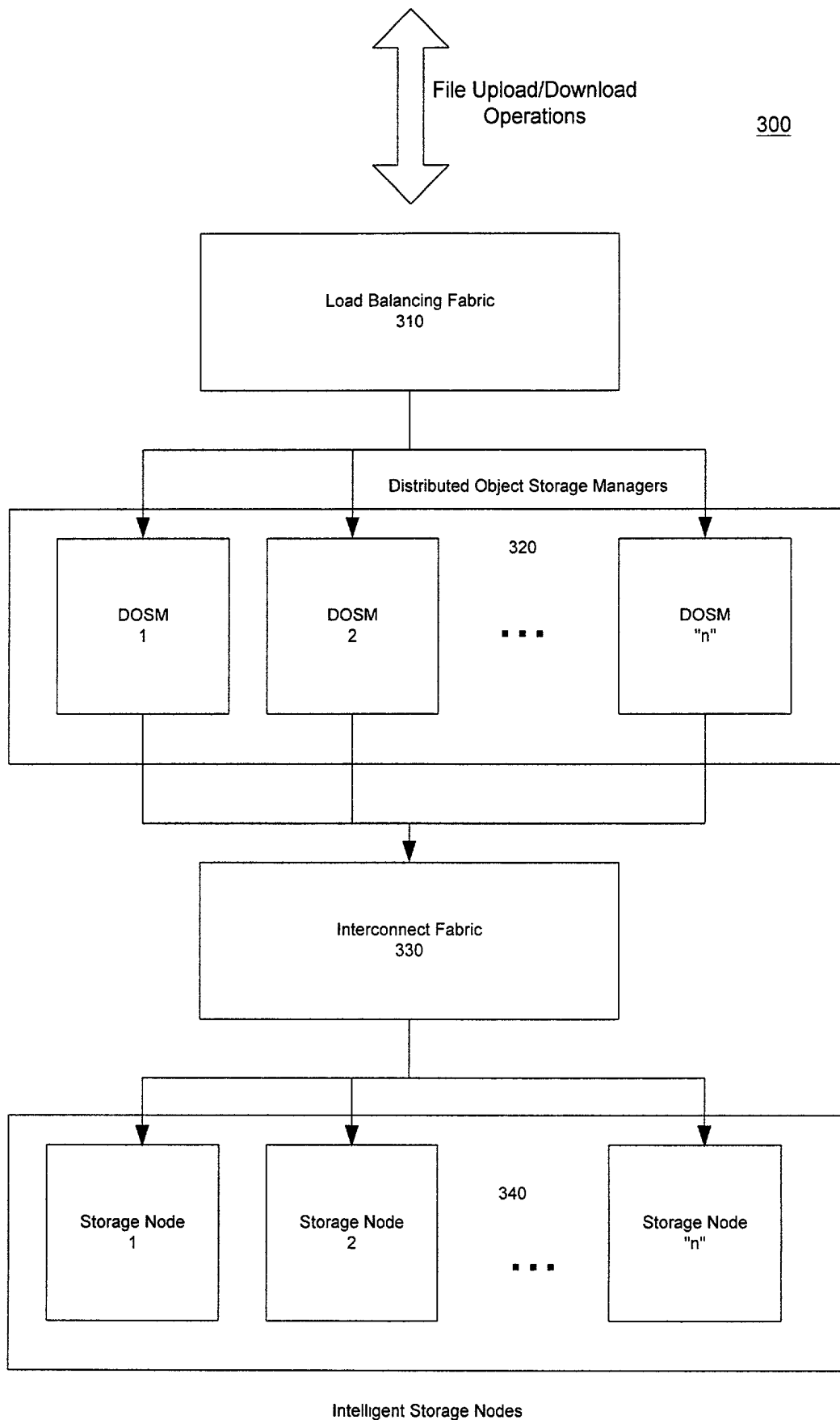


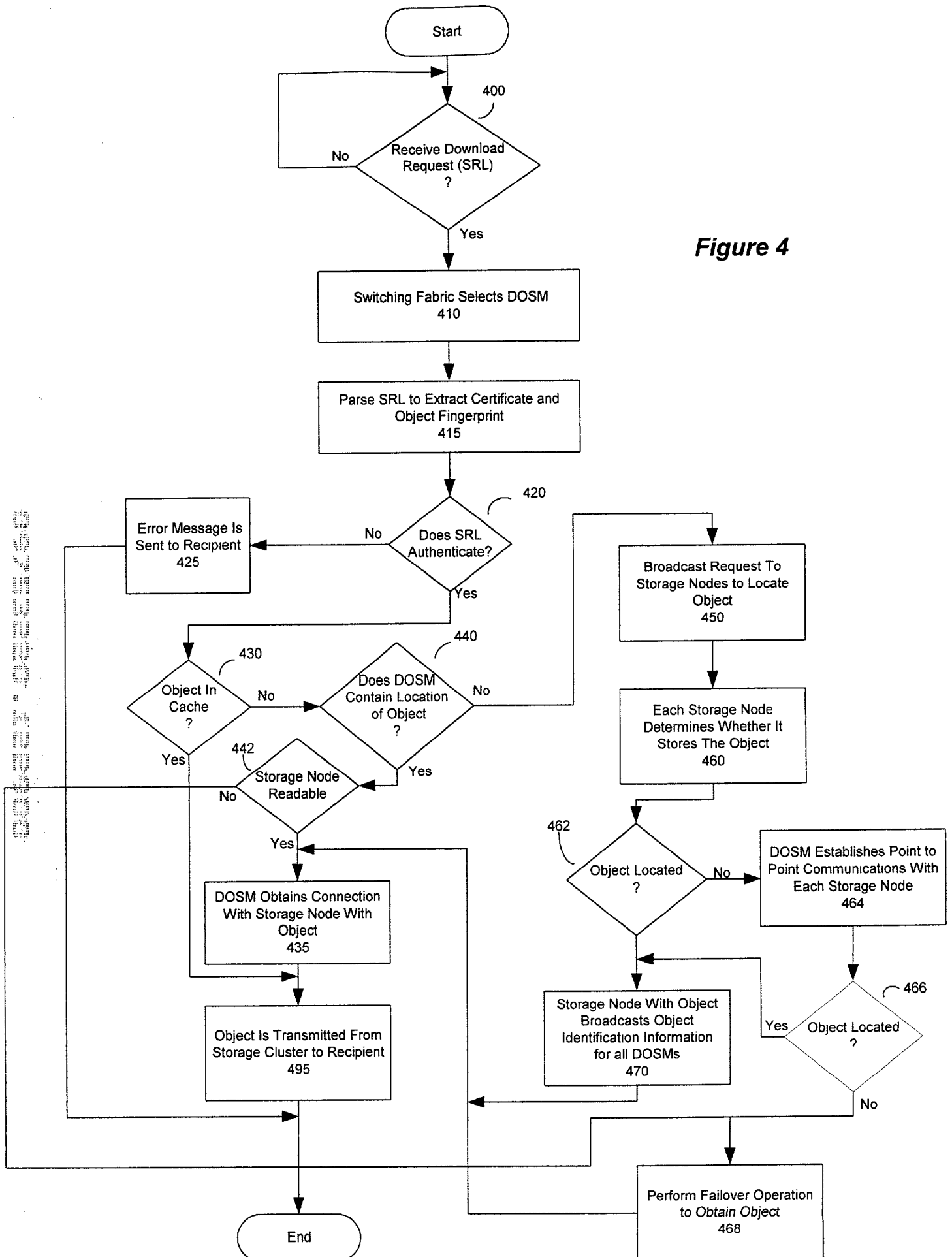
Figure 1



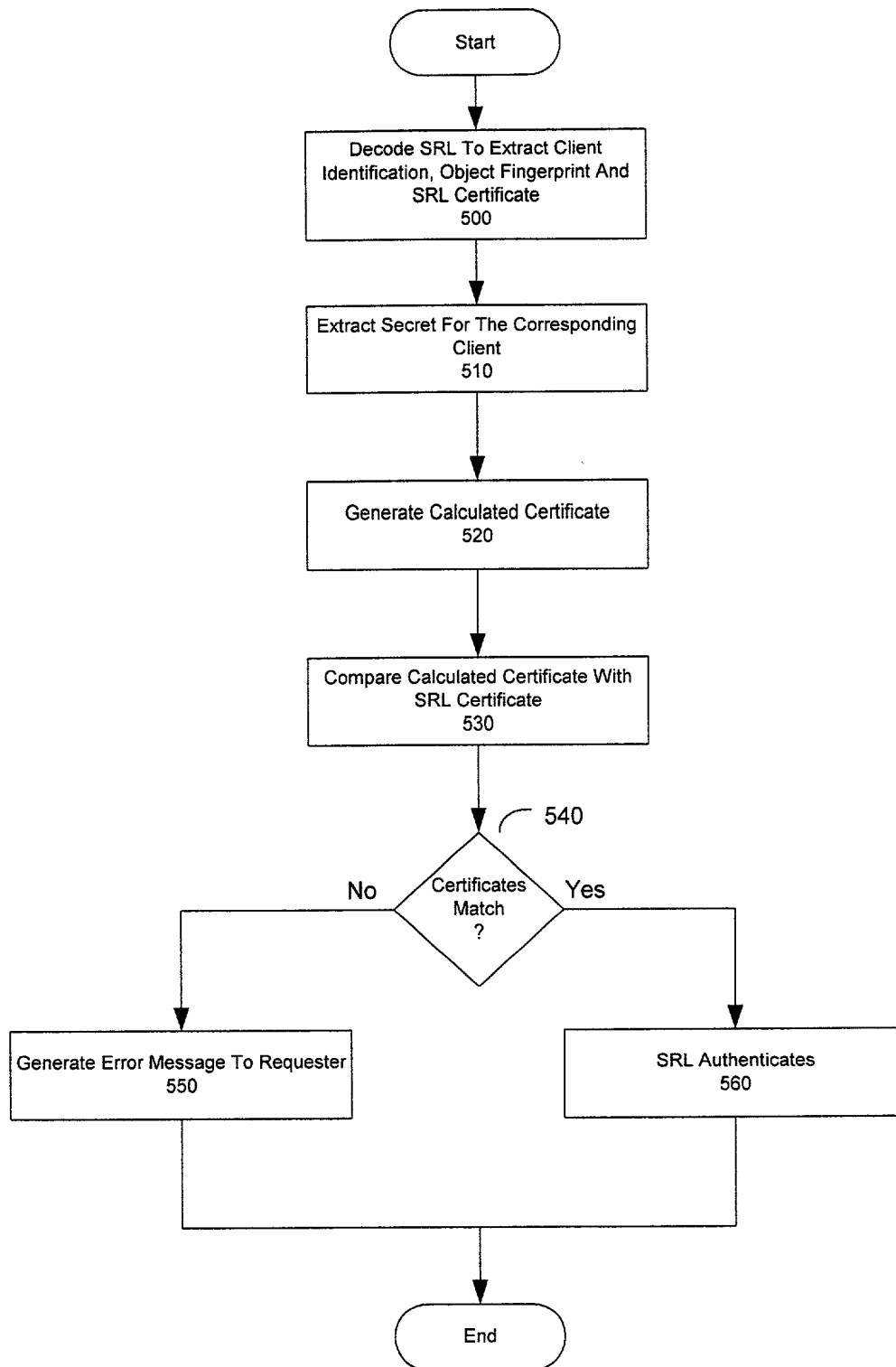
**Figure 2**



**Figure 3**

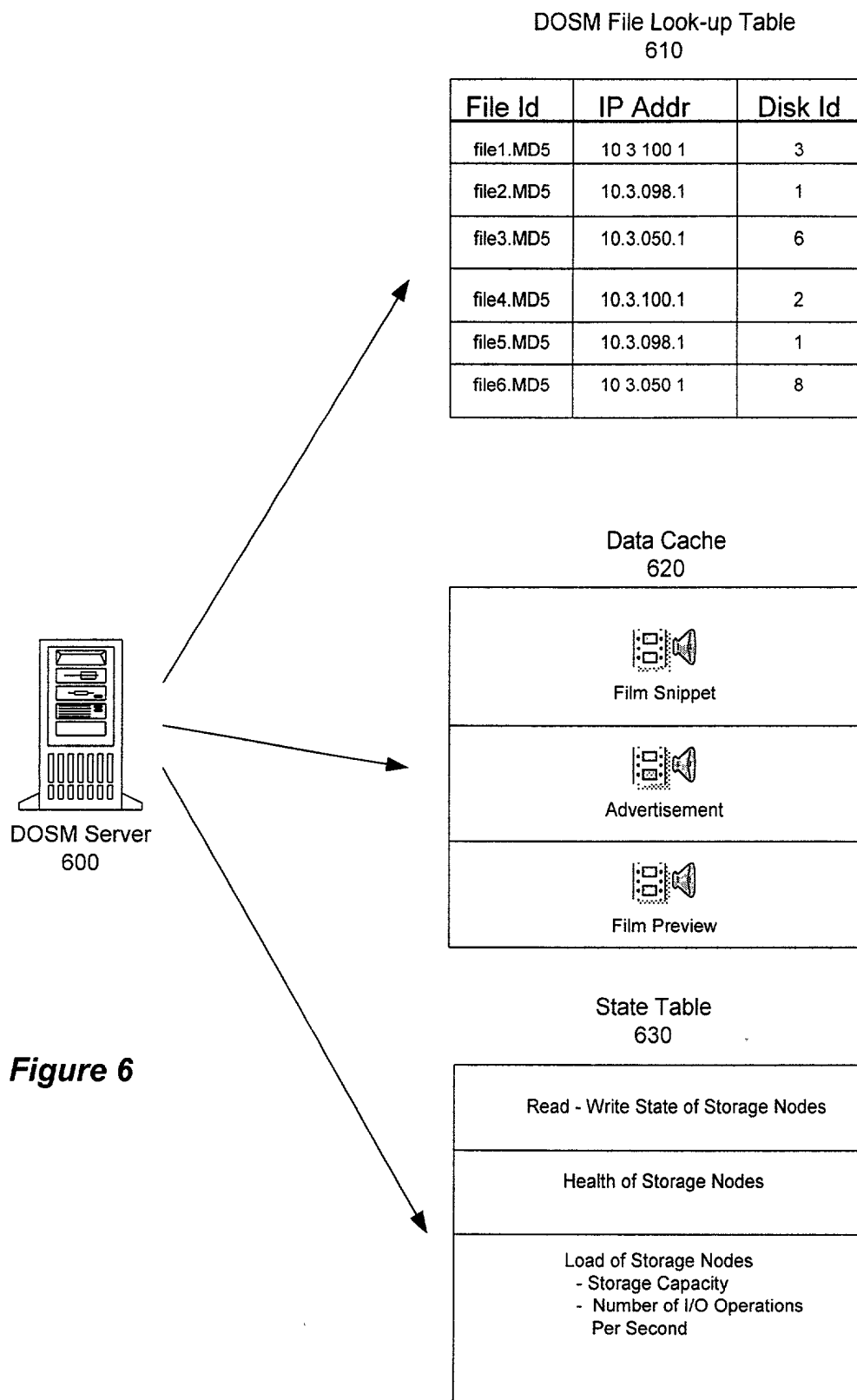


**Figure 4**



**Figure 5**

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700

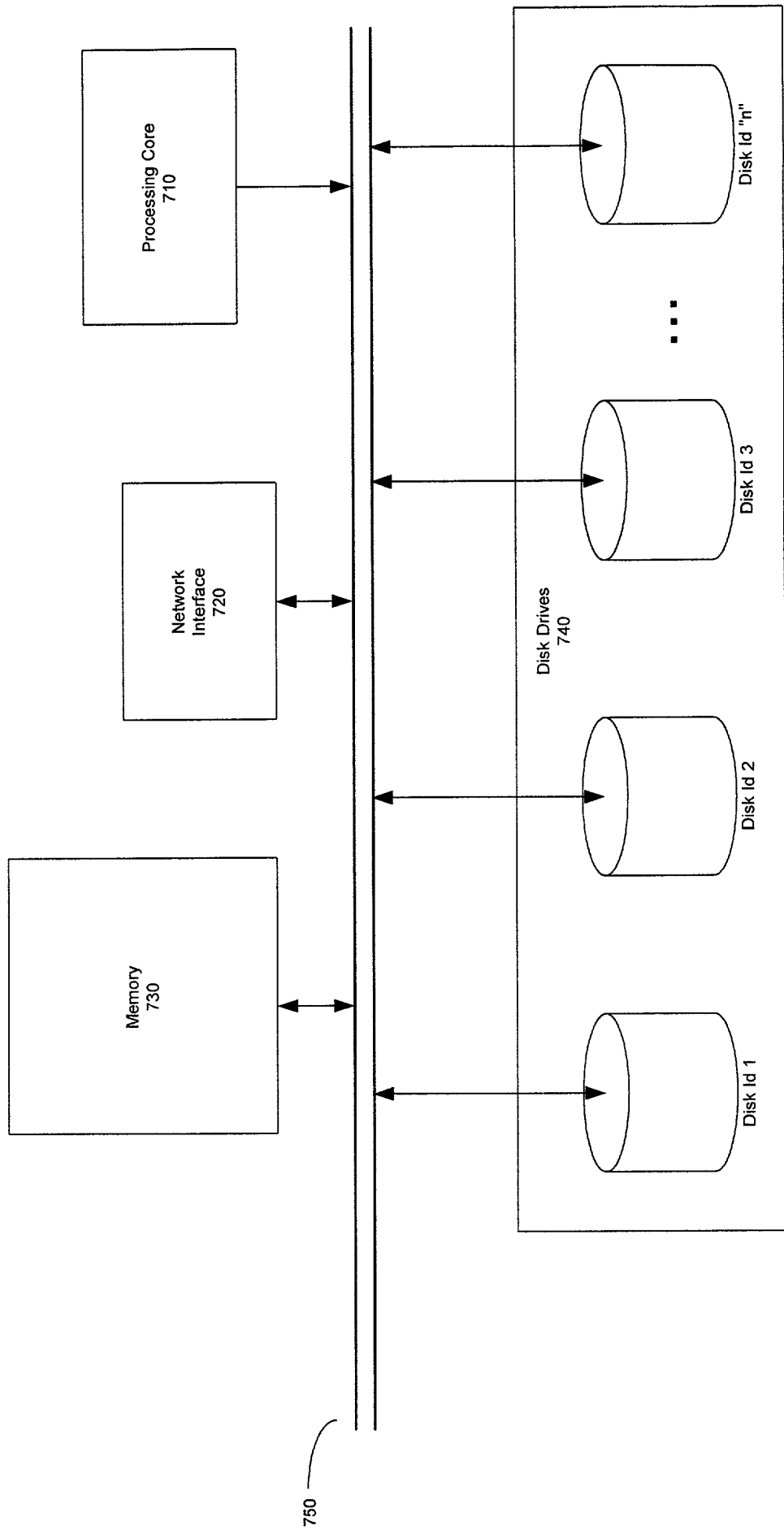
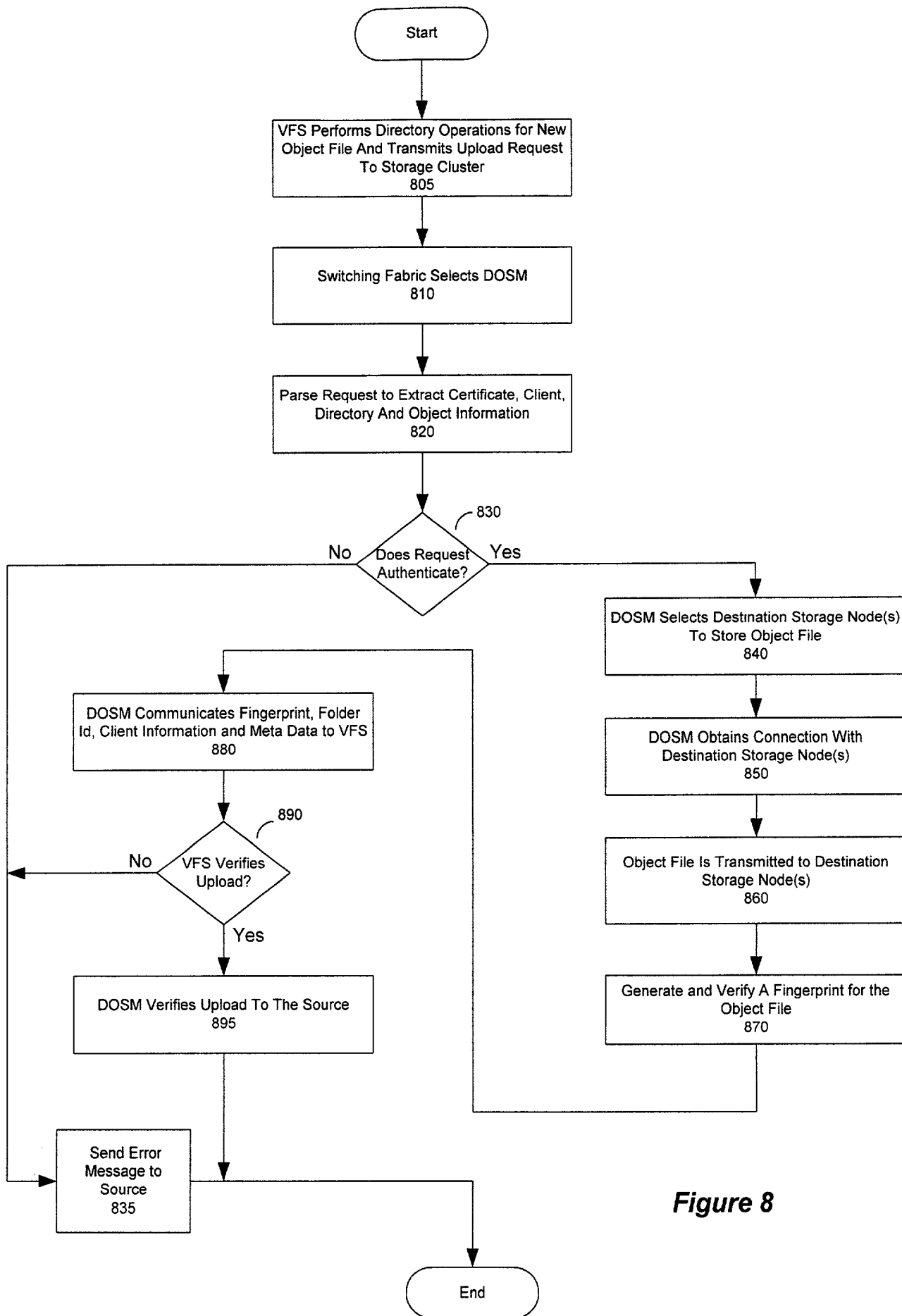
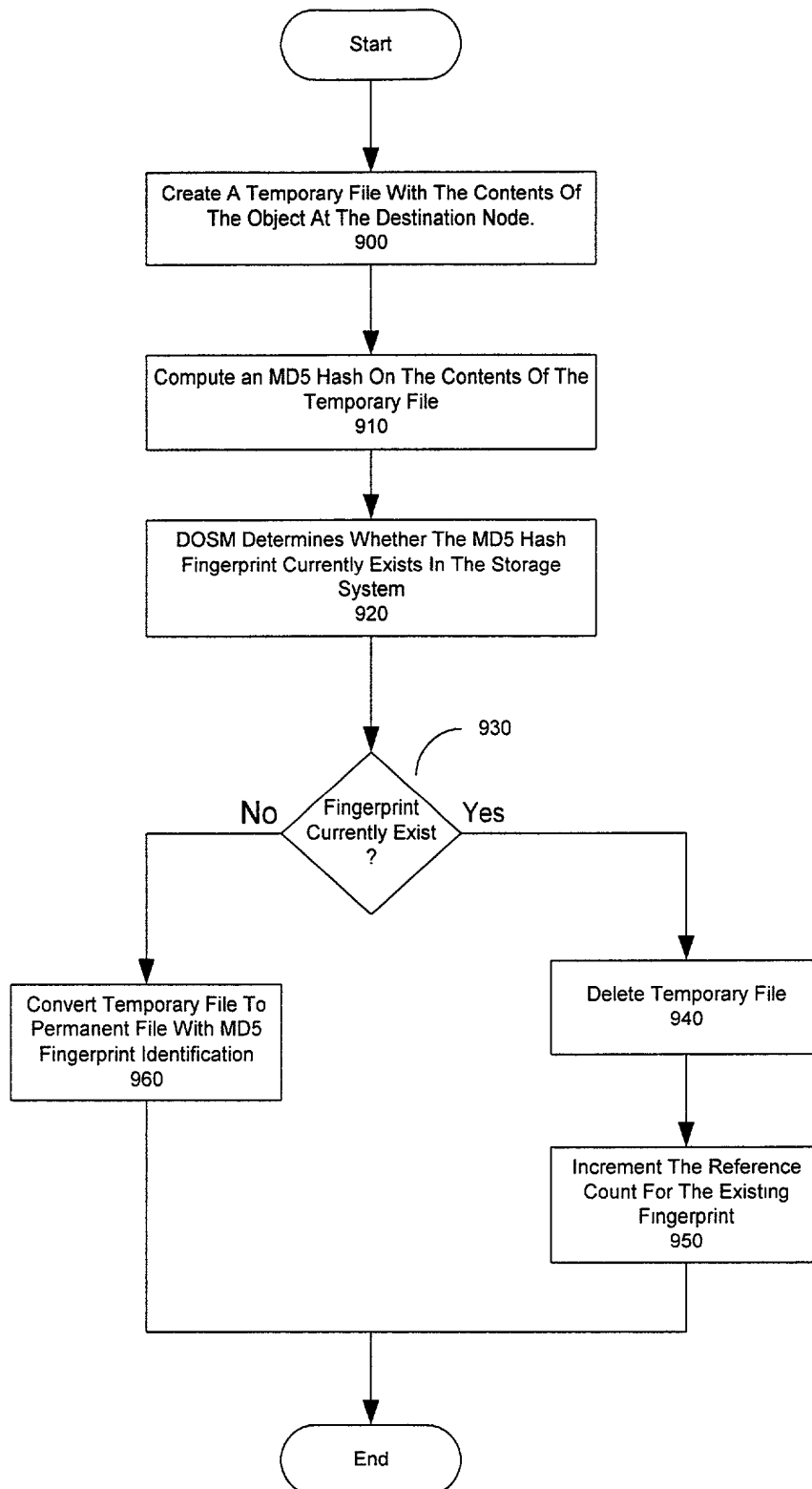


Figure 7



**Figure 8**



**Figure 9**

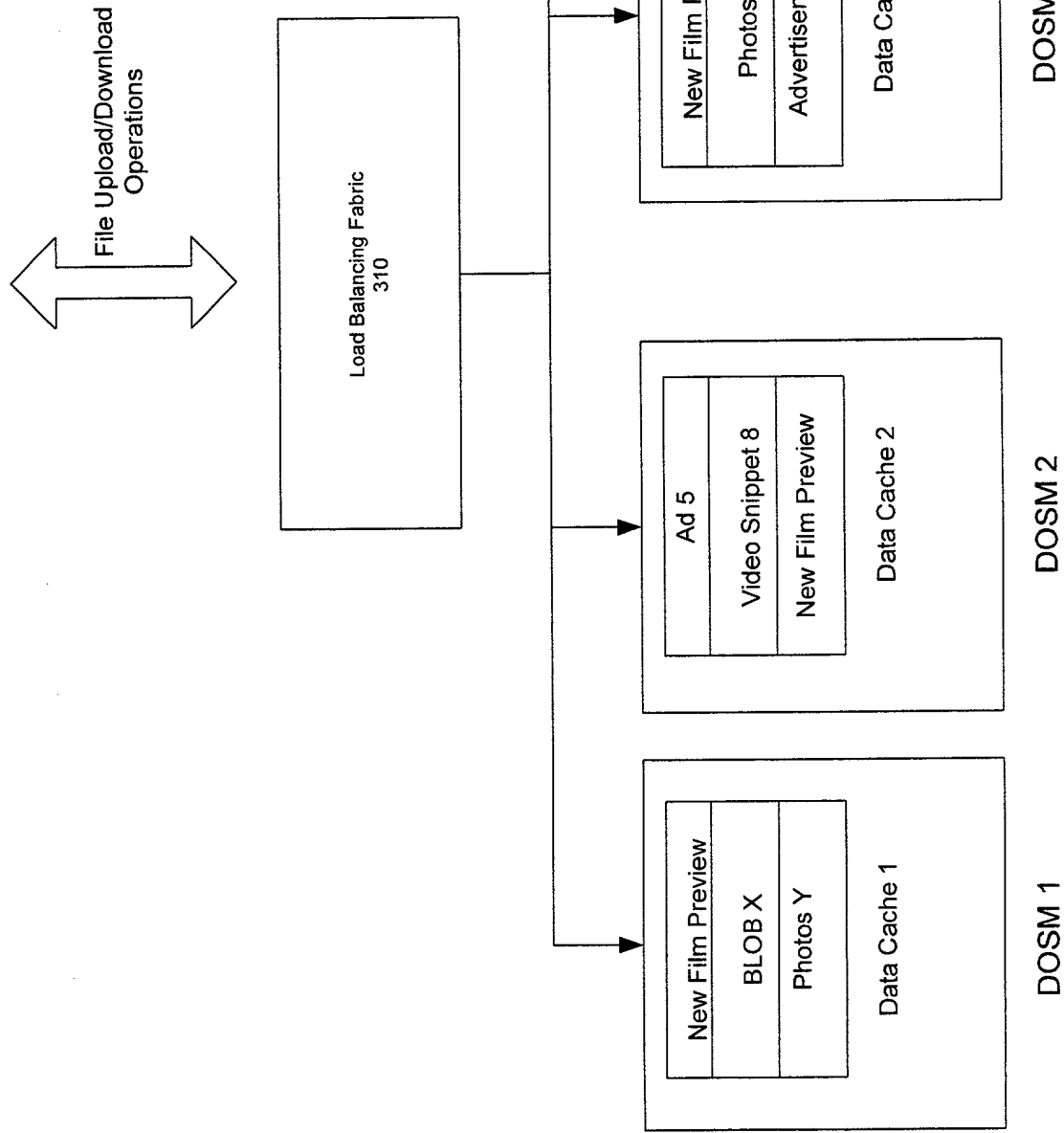
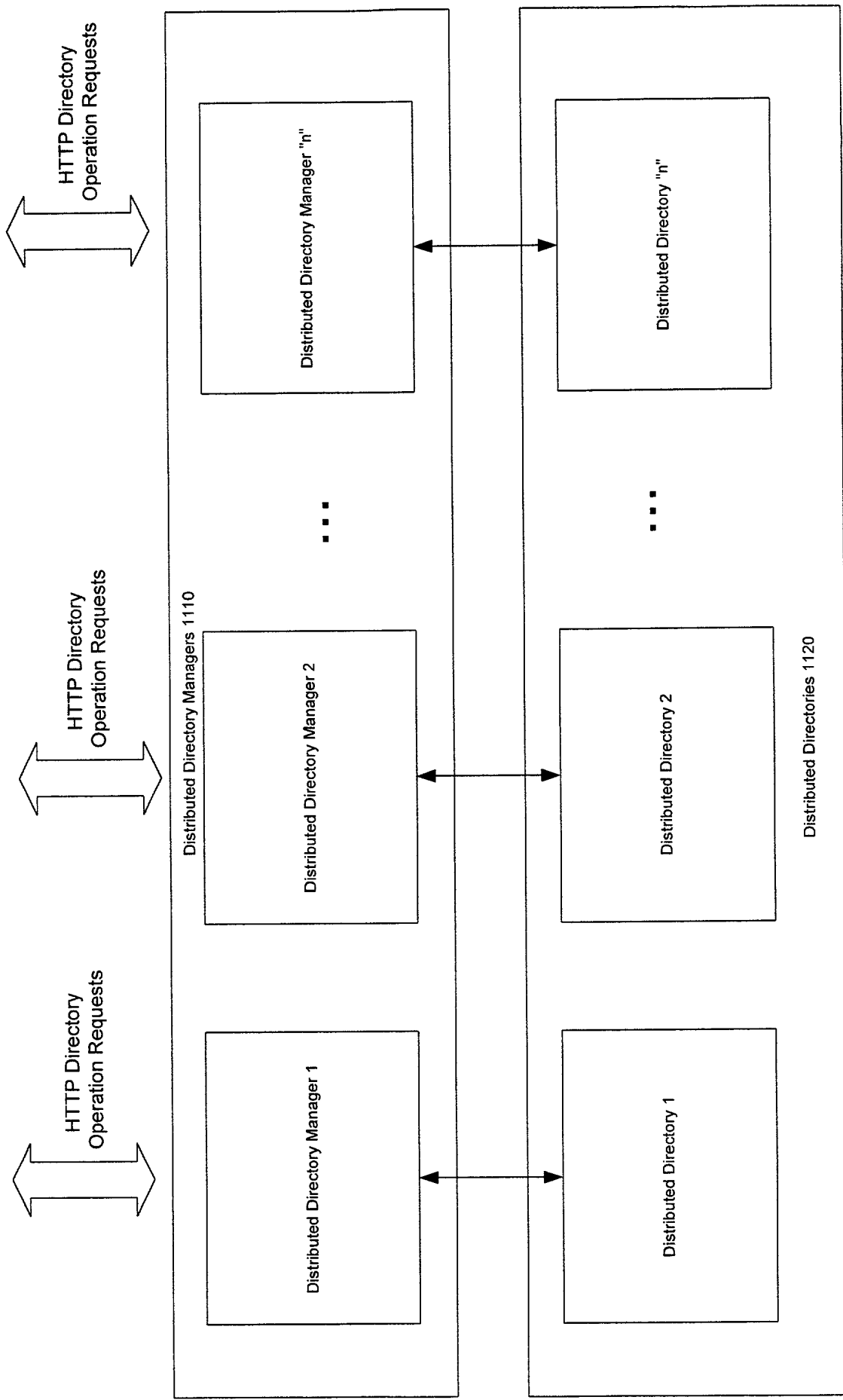


Figure 10



**Figure 11**

Customer Table

	Customer Name	Customer Reserved Fields
	Customer A	[Customer stores data ...]
	Customer B	[Customer stores data ...]
	Customer C	[Customer stores data ...]
	Customer D	[Customer stores data ...]

1200

Folder Table

Customer Id	Folder Id	Folder Parent Id	Metadata
3	2	-	[Reserved]
3	100	2	[Reserved]
3	251	2	[Reserved]
3	166	251	[Reserved]

1210

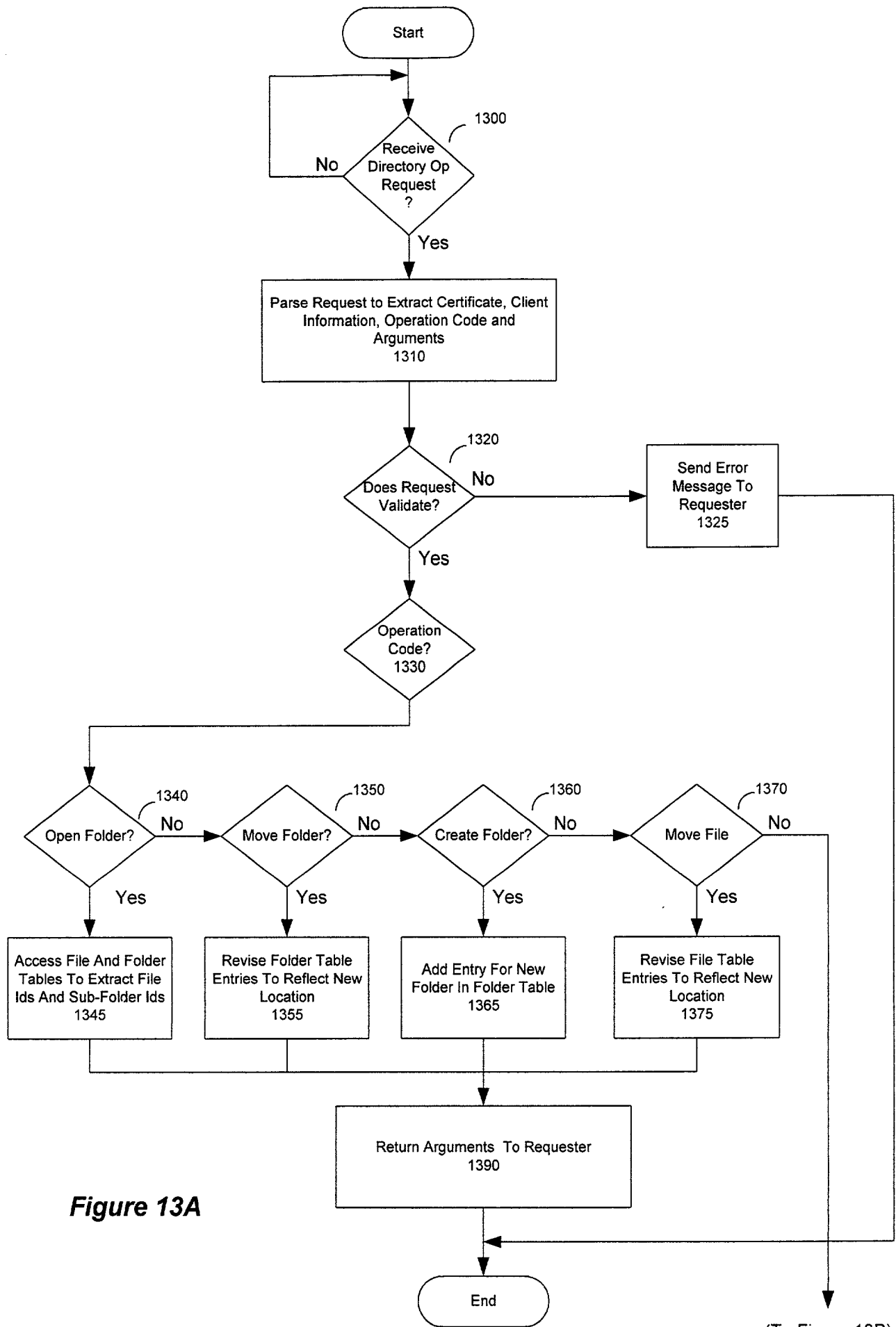
File Table

Customer Id	File Handle	Folder Id	Folder Parent Id	Metadata
3	52.MD5	100	2	[Reserved]
3	55.MD5	100	2	[Reserved]
3	99.MD5	166	251	[Reserved]
3	67.MD5	166	251	[Reserved]

1220

**Figure 12**

FIG. 13A is a flowchart illustrating a process for handling directory operations. The process begins at a Start node, leading to a decision diamond 1300: "Receive Directory Op Request?". If the answer is "No", the flow loops back to the input of diamond 1300. If "Yes", the flow proceeds to a process rectangle 1310: "Parse Request to Extract Certificate, Client Information, Operation Code and Arguments". From 1310, the flow goes to decision diamond 1320: "Does Request Validate?". If "No", the flow goes to a process rectangle 1325: "Send Error Message To Requester", which then leads to the End node. If "Yes", the flow goes to decision diamond 1330: "Operation Code?". From 1330, the flow proceeds through a series of decision diamonds: 1340: "Open Folder?", 1350: "Move Folder?", 1360: "Create Folder?", and 1370: "Move File?". Each of these diamonds has a "Yes" path leading to a corresponding process rectangle (1345: "Access File And Folder Tables To Extract File Ids And Sub-Folder Ids", 1355: "Revise Folder Table Entries To Reflect New Location", 1365: "Add Entry For New Folder In Folder Table", and 1375: "Revise File Table Entries To Reflect New Location") and a "No" path leading to the next decision diamond. All "Yes" paths (1345, 1355, 1365, 1375) lead to a process rectangle 1390: "Return Arguments To Requester", which then leads to the End node. The "No" path from diamond 1370 leads to the text "(To Figure 13B)".



**Figure 13A**

(To Figure 13B)

(From Figure 13A)

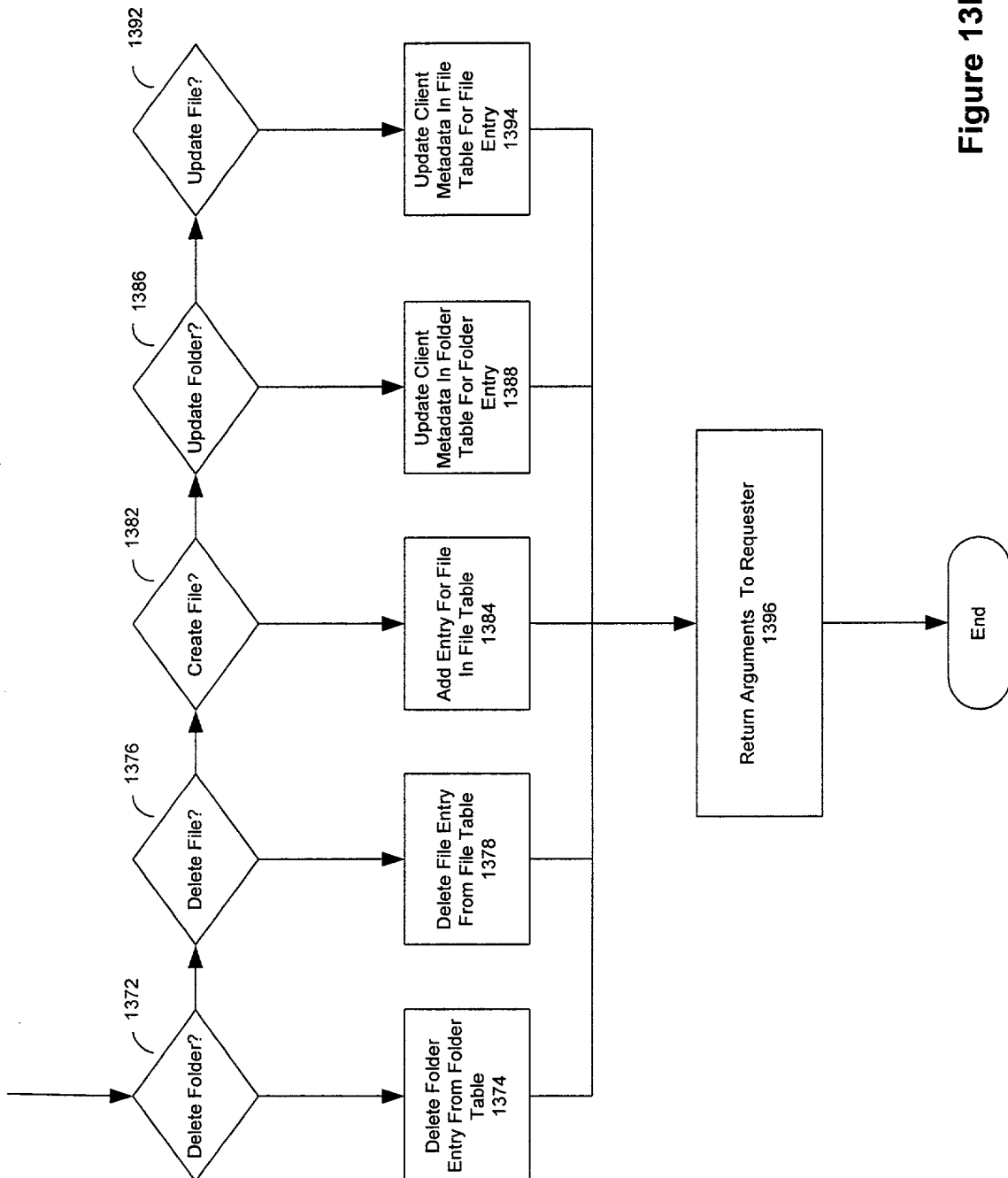
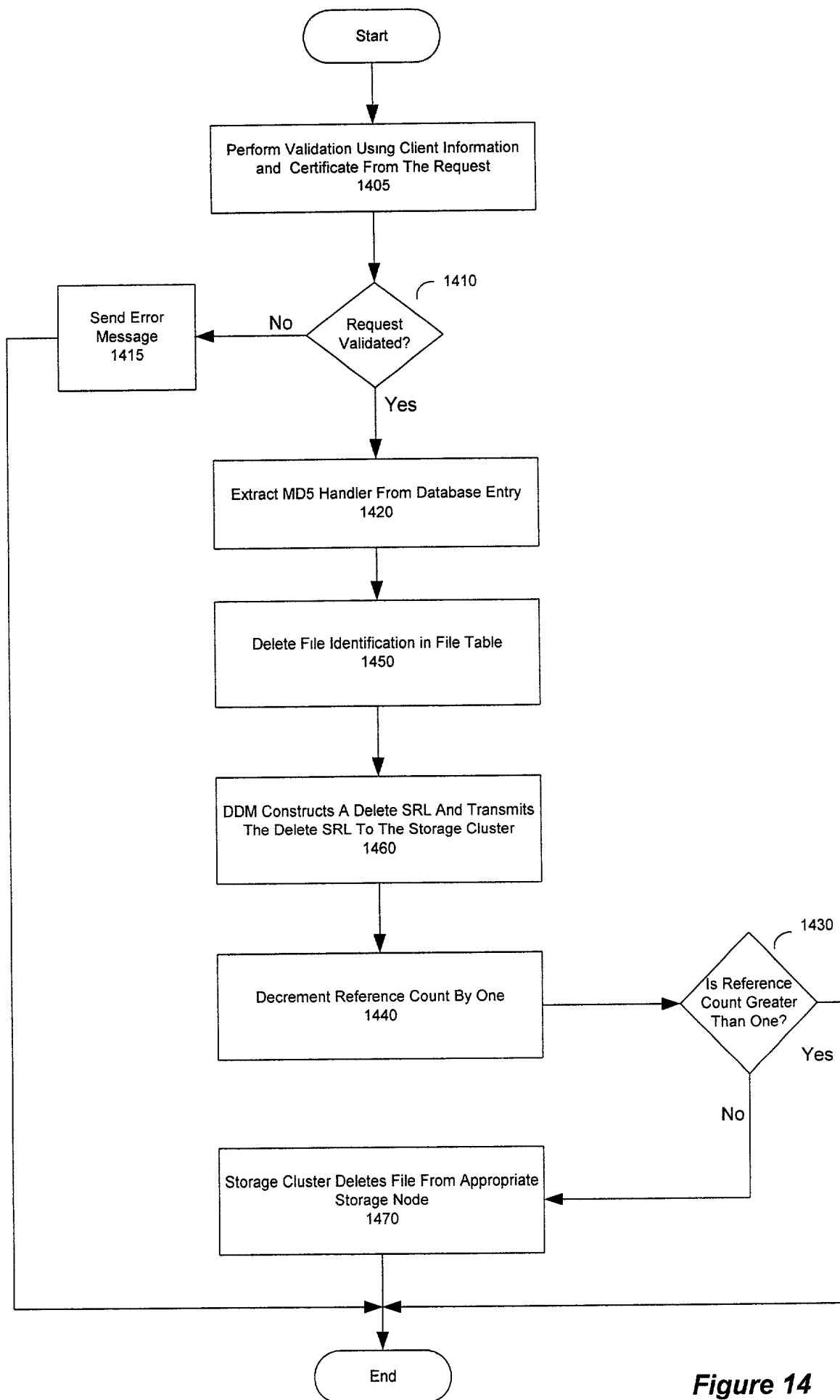
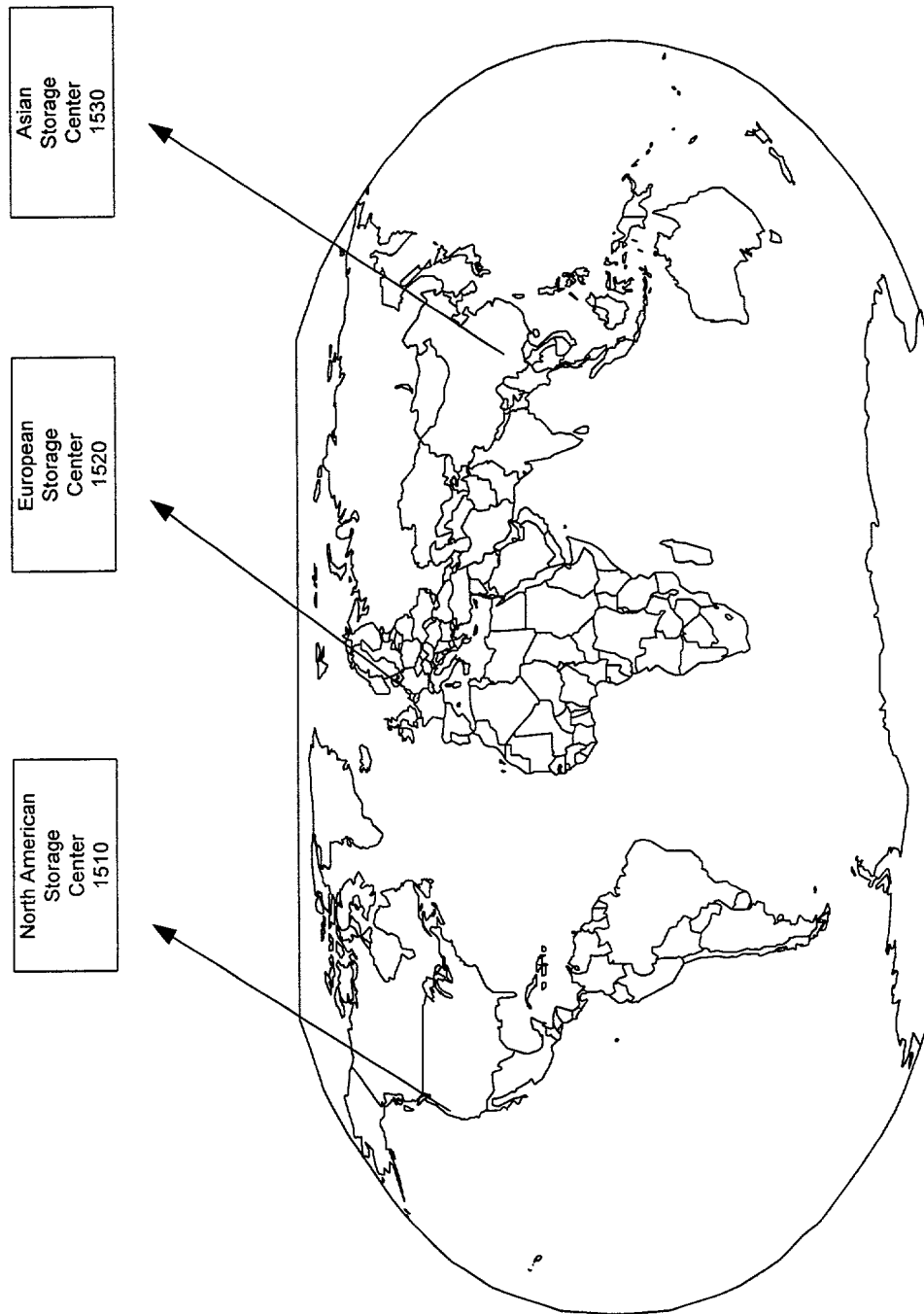


Figure 13B



**Figure 14**



**Figure 15**

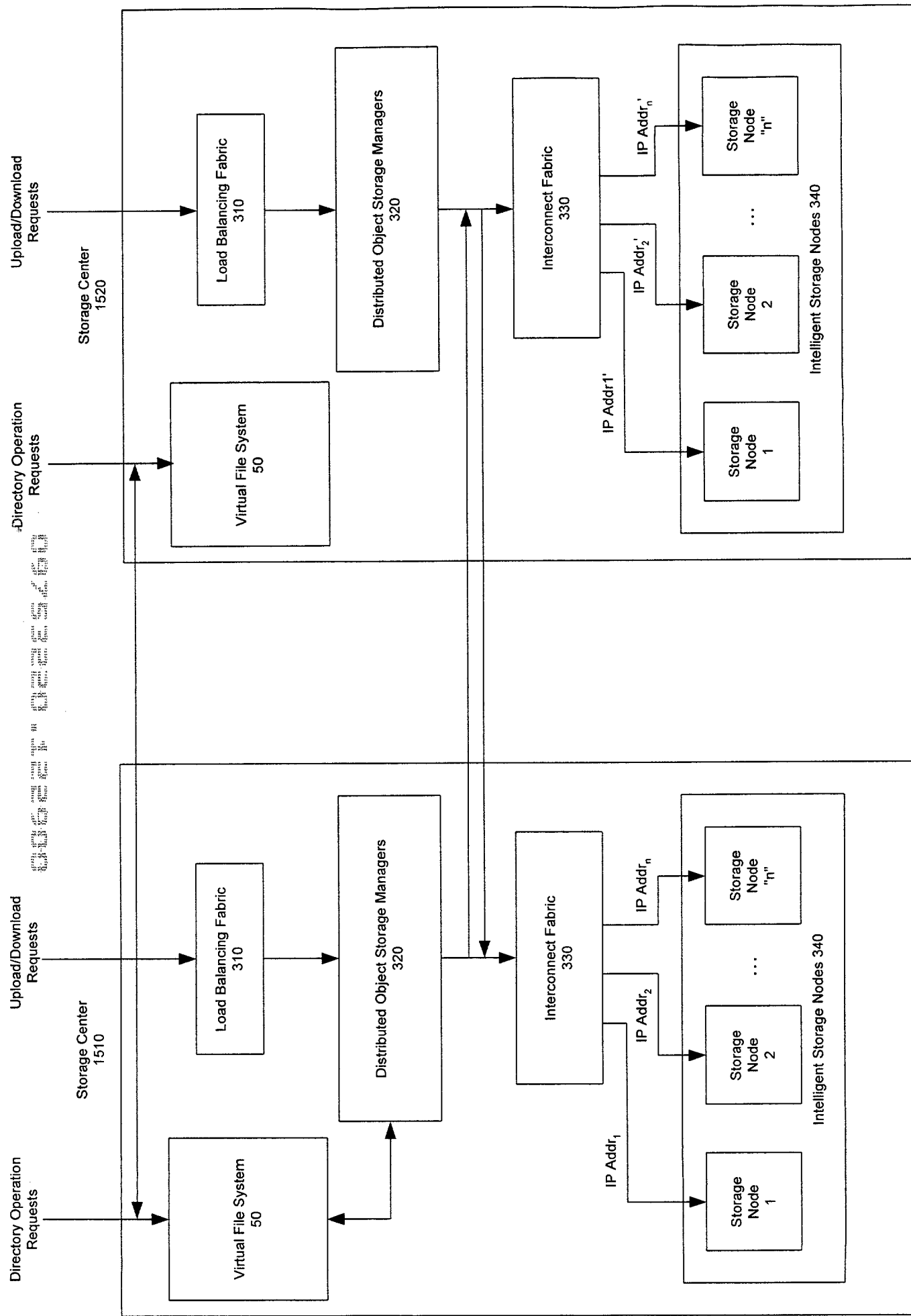


Figure 16

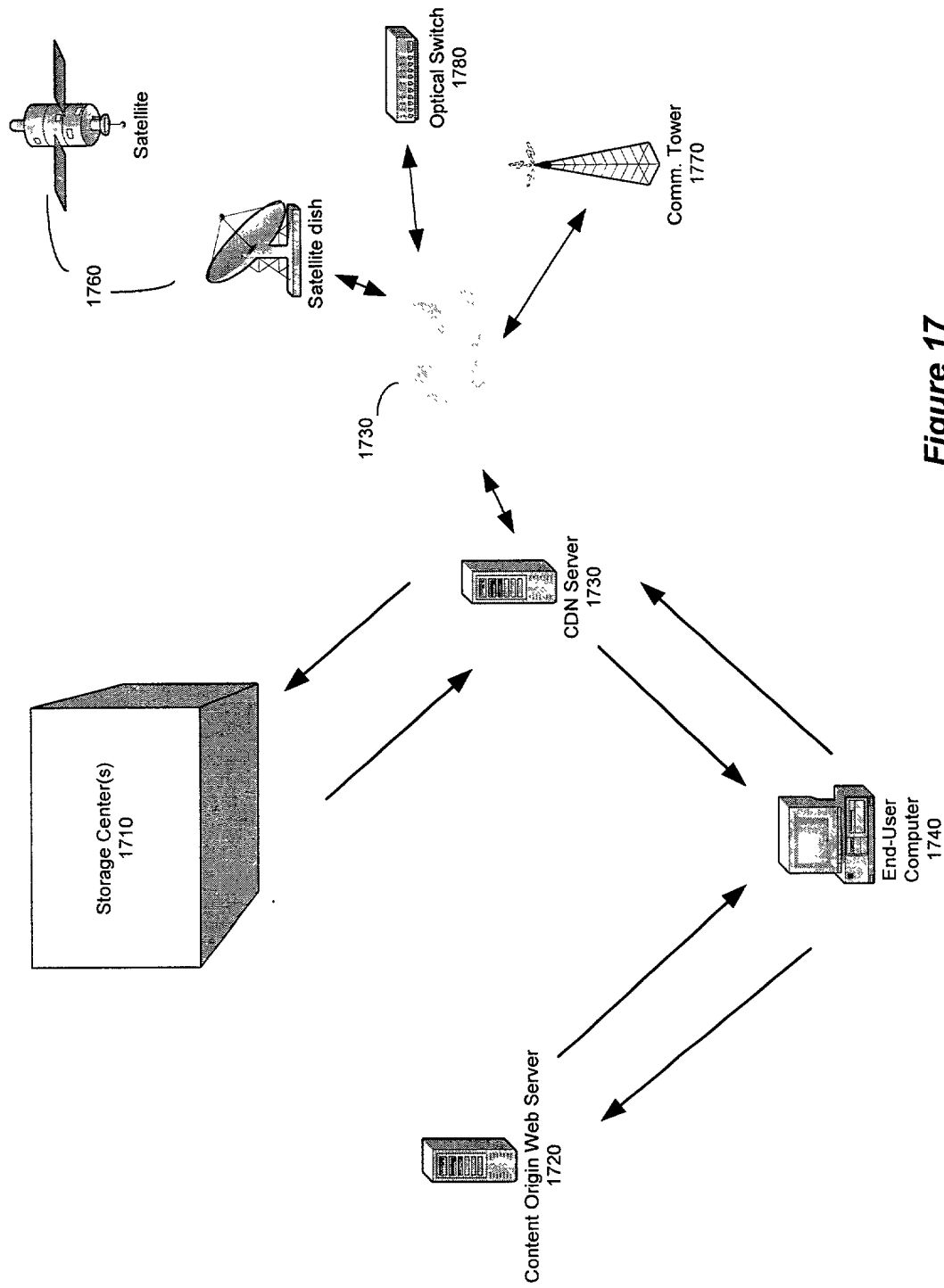
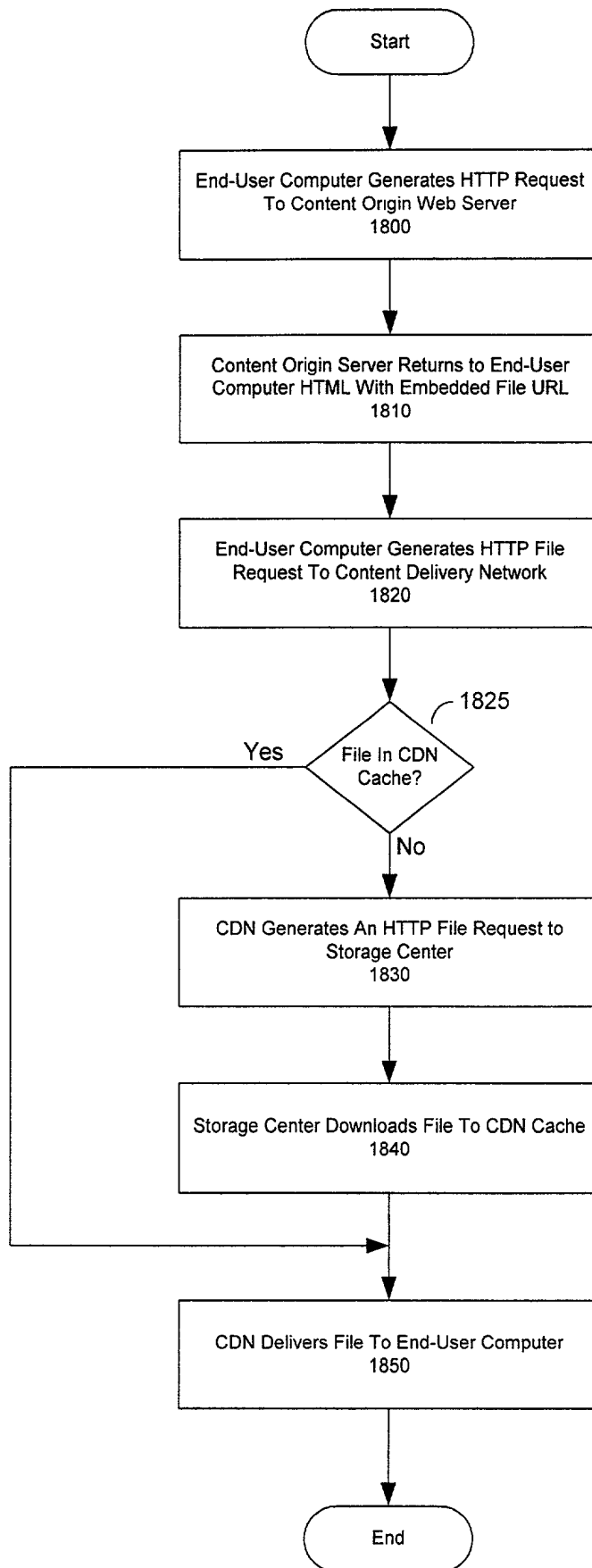
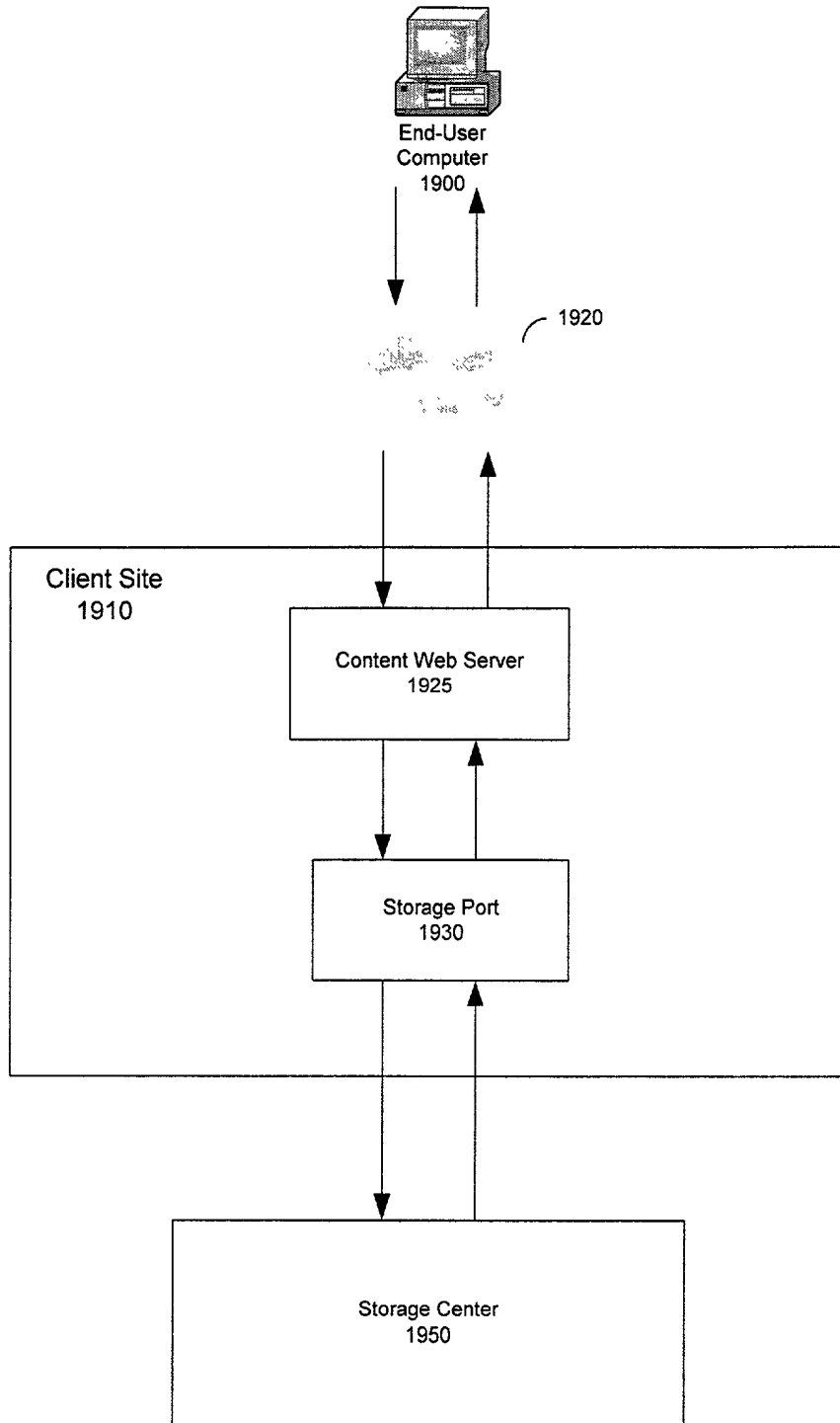


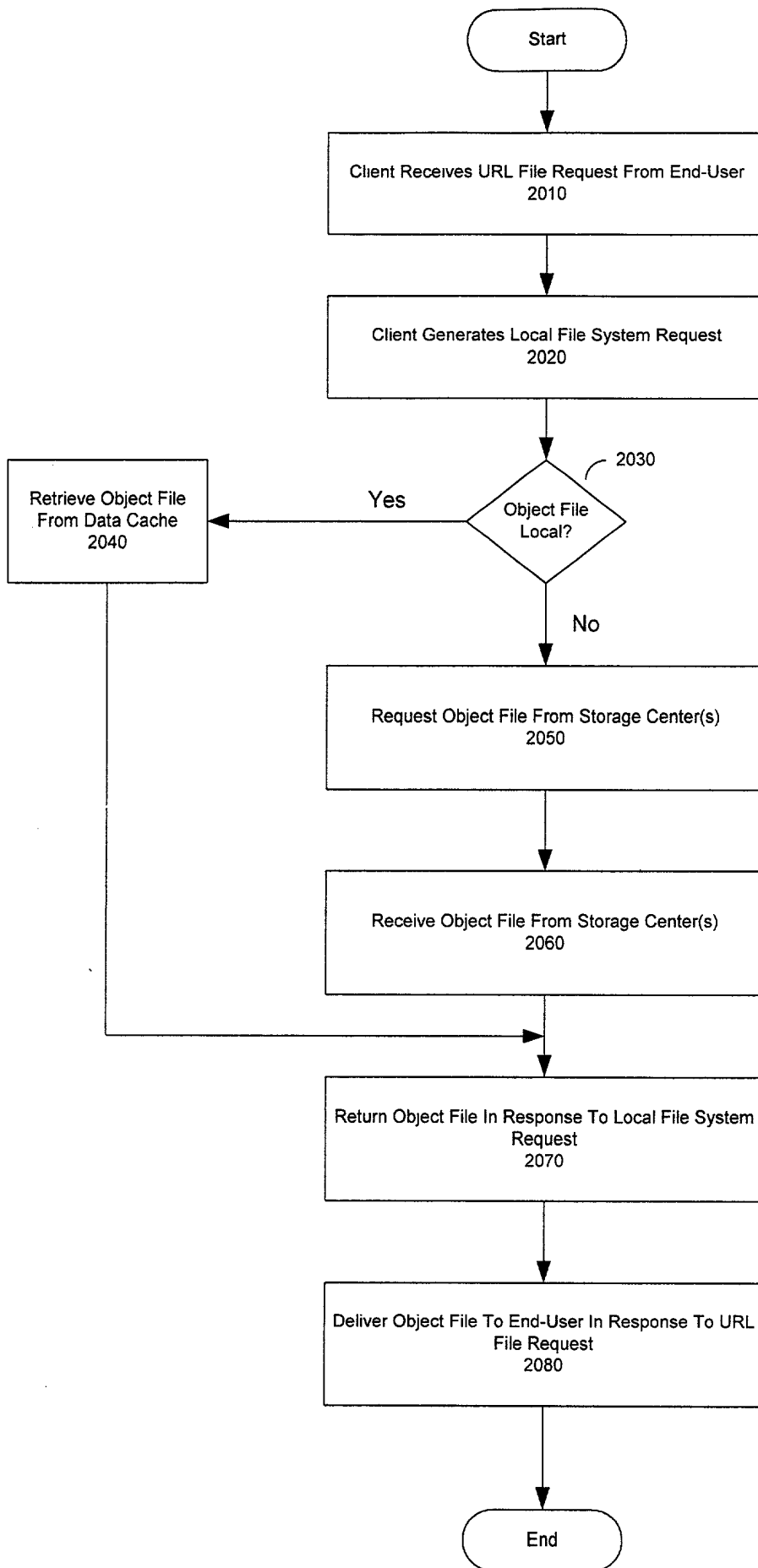
Figure 17



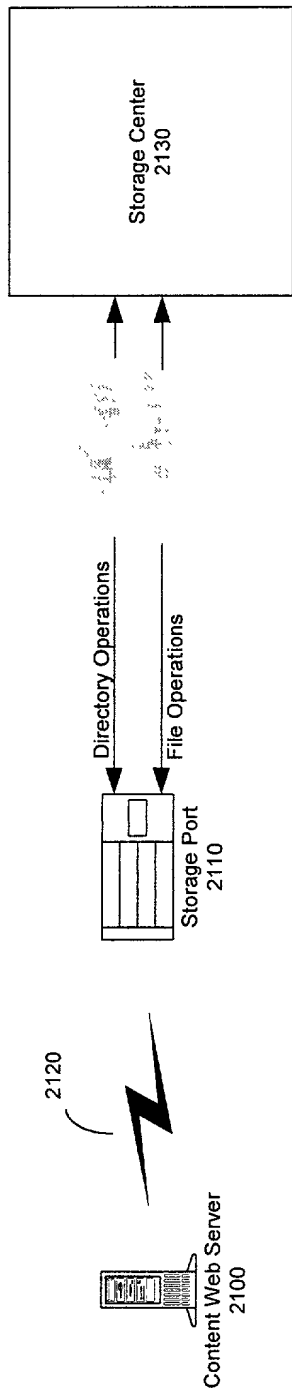
**Figure 18**



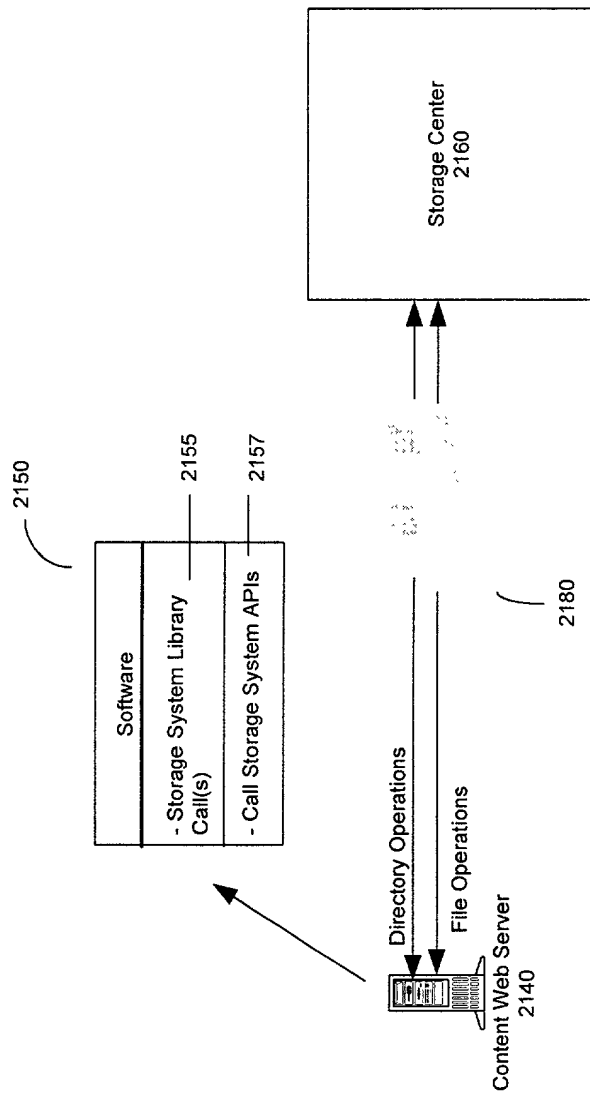
**Figure 19**



**Figure 20**



**Figure 21a**



**Figure 21b**

Storage Port  
2200

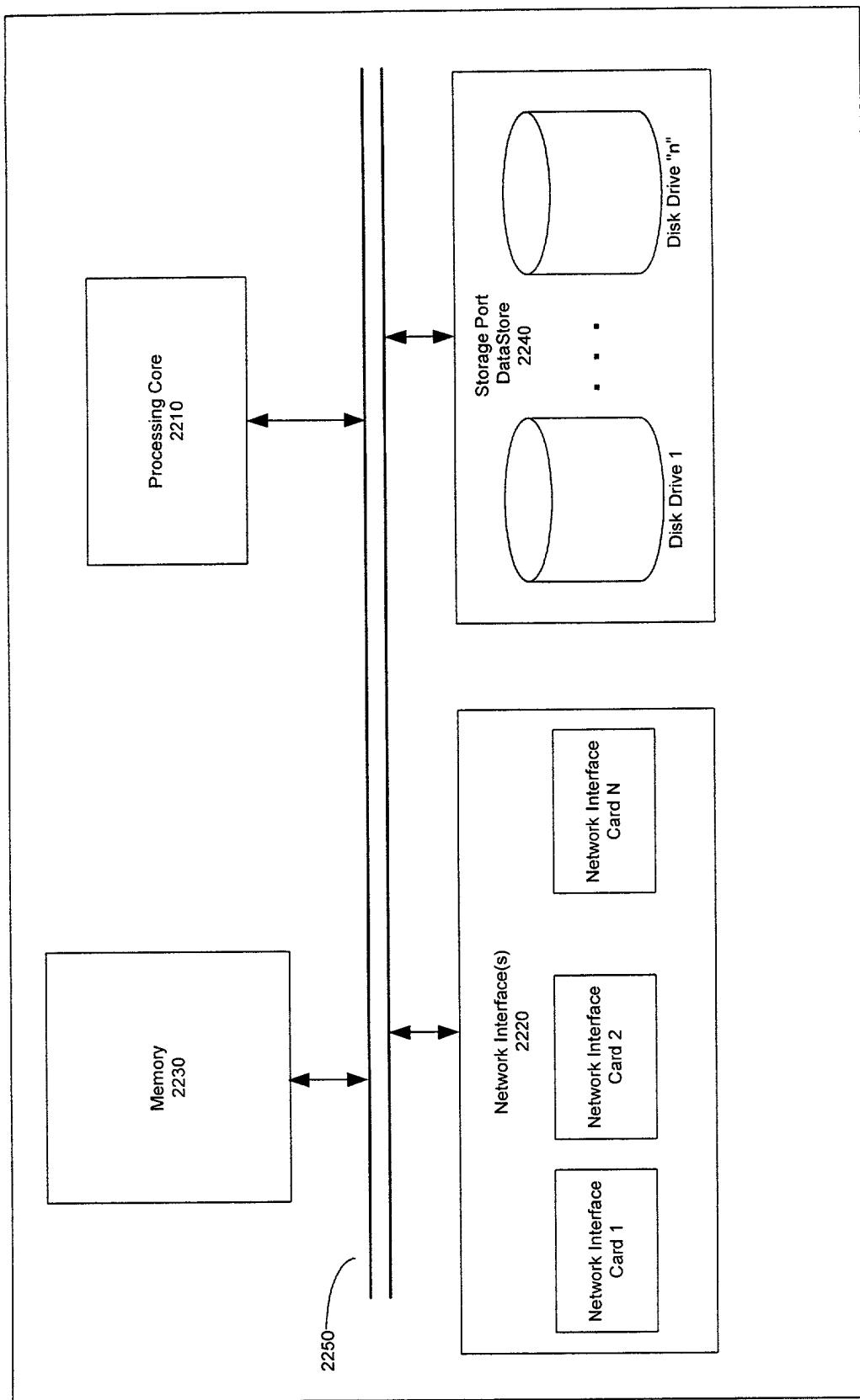
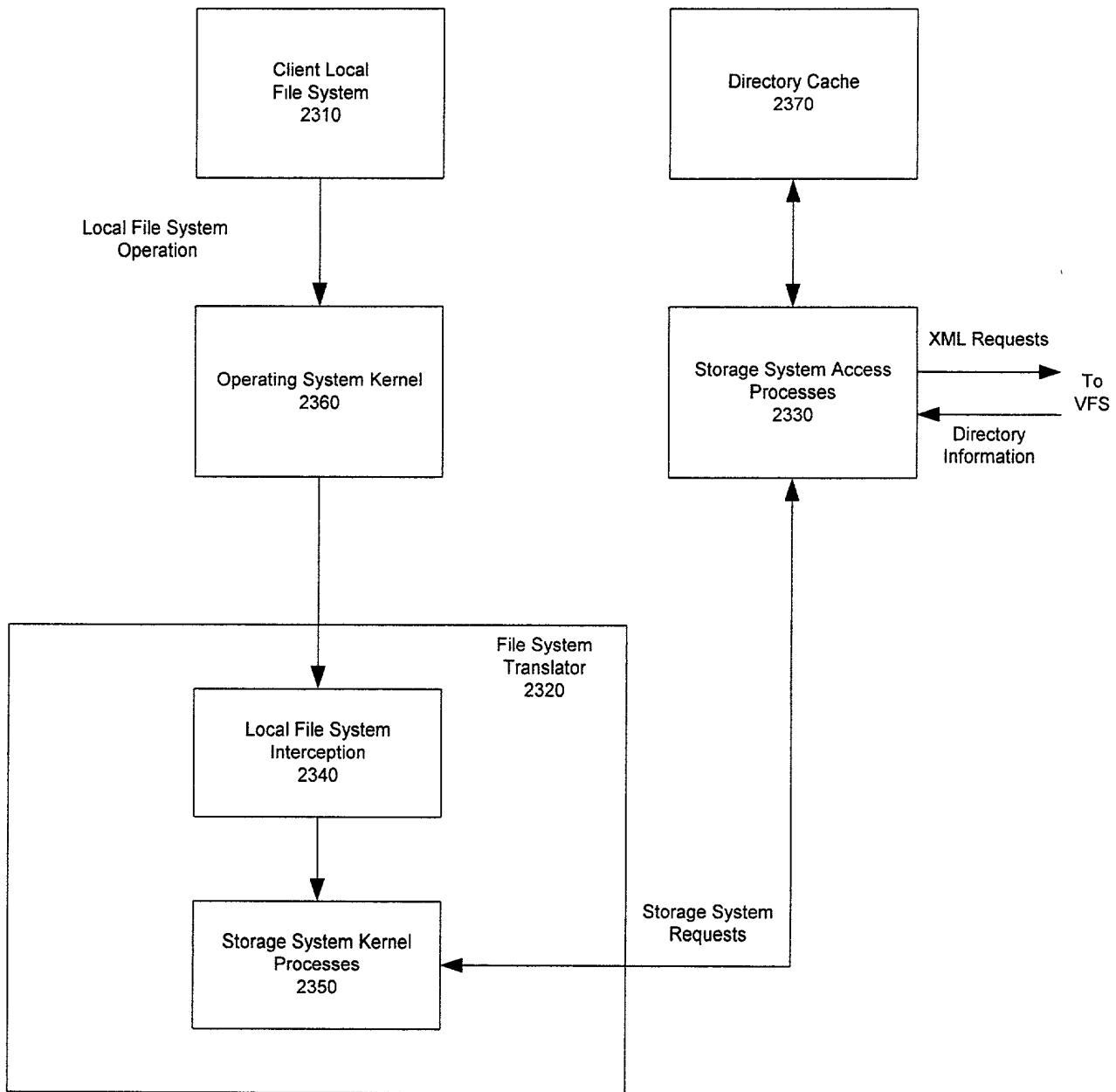
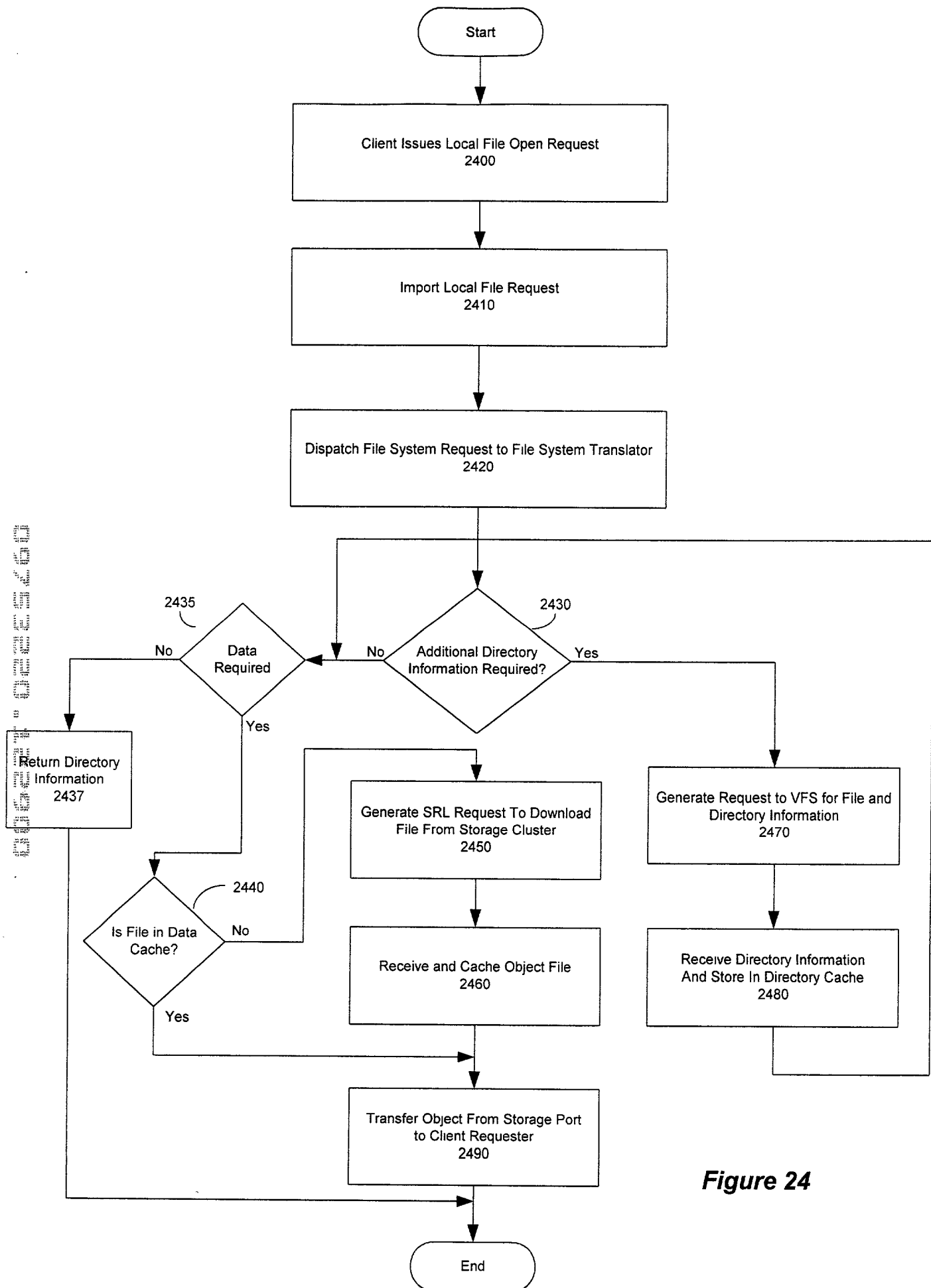


Figure 22

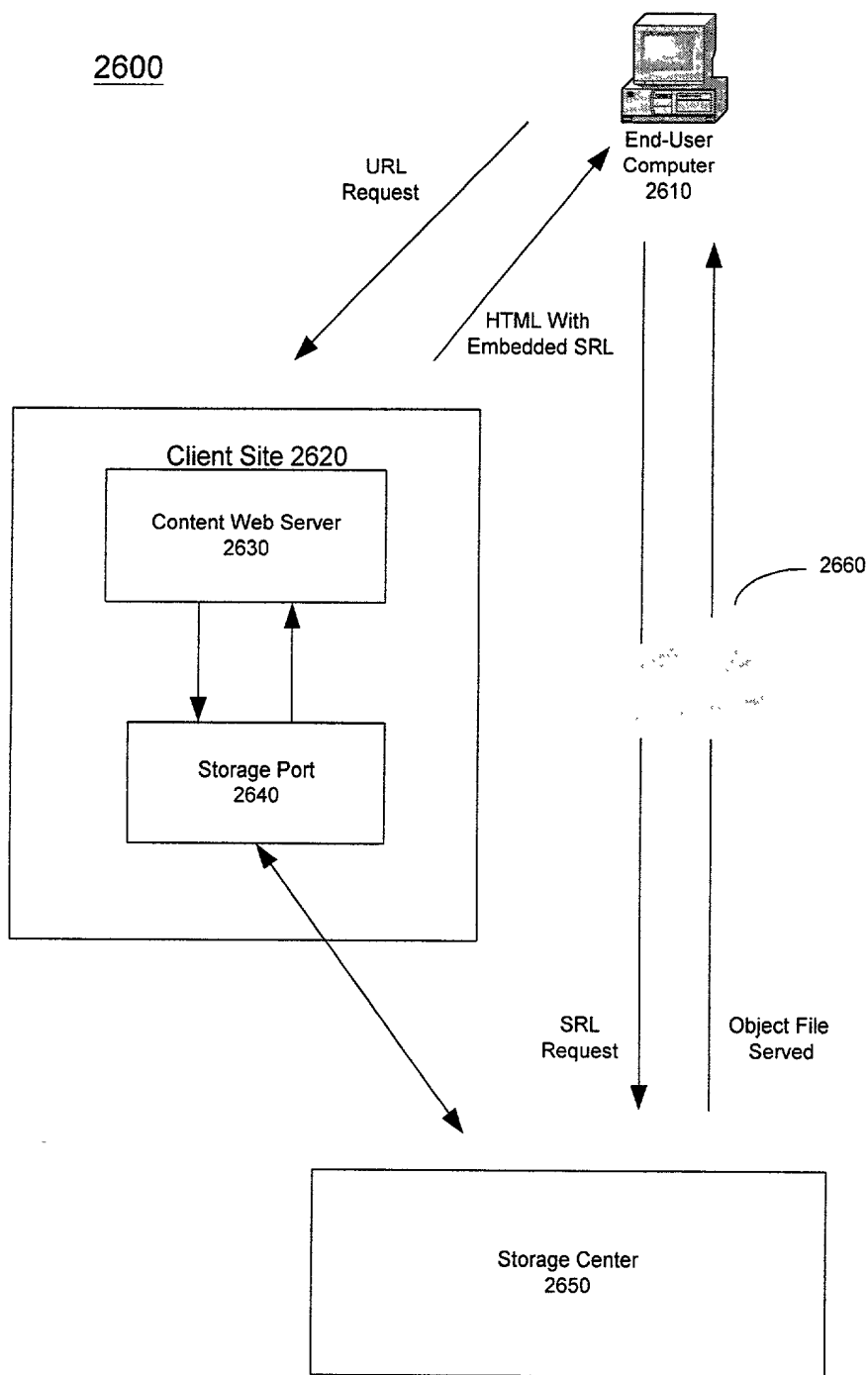
2300



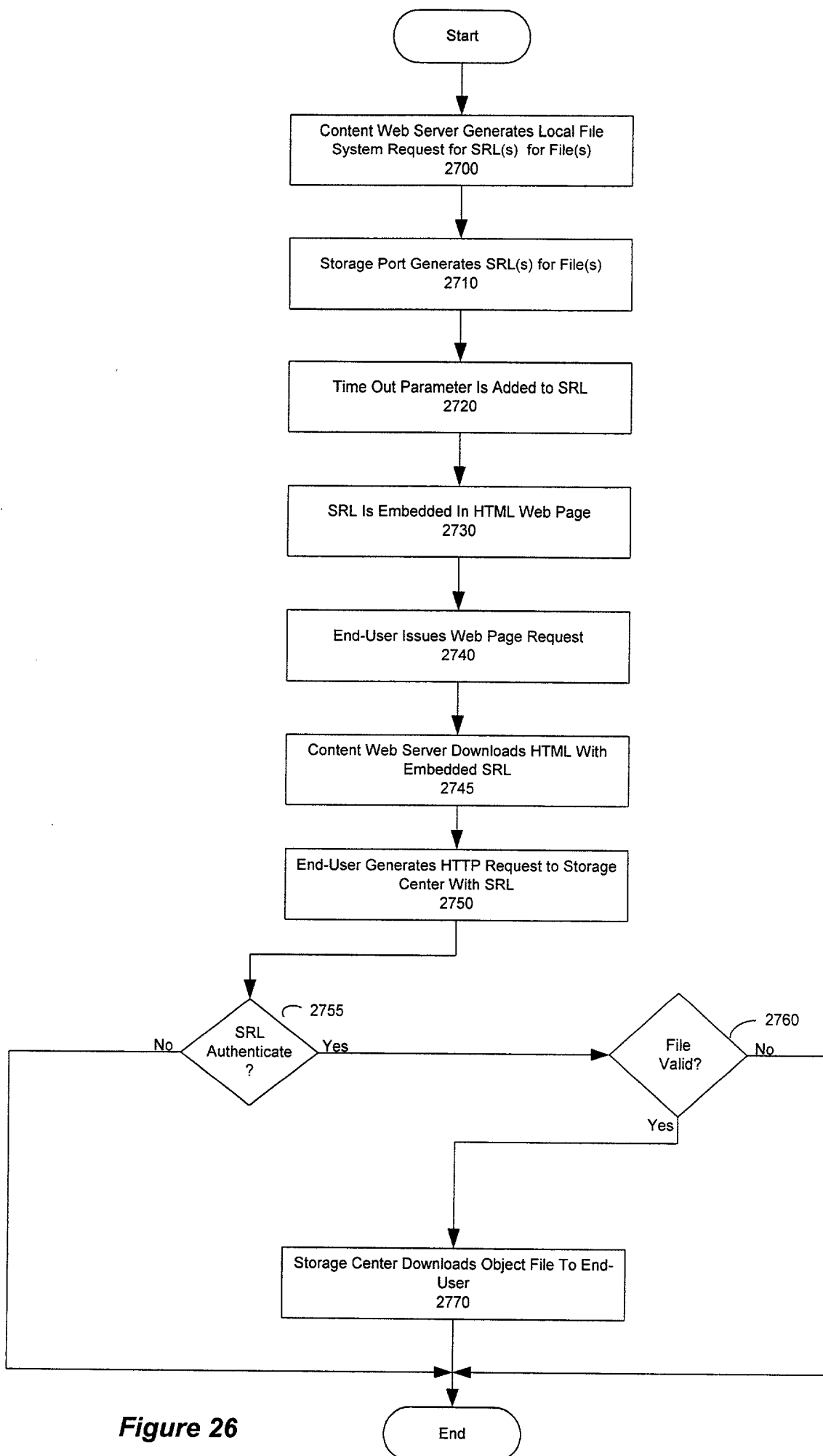
**Figure 23**



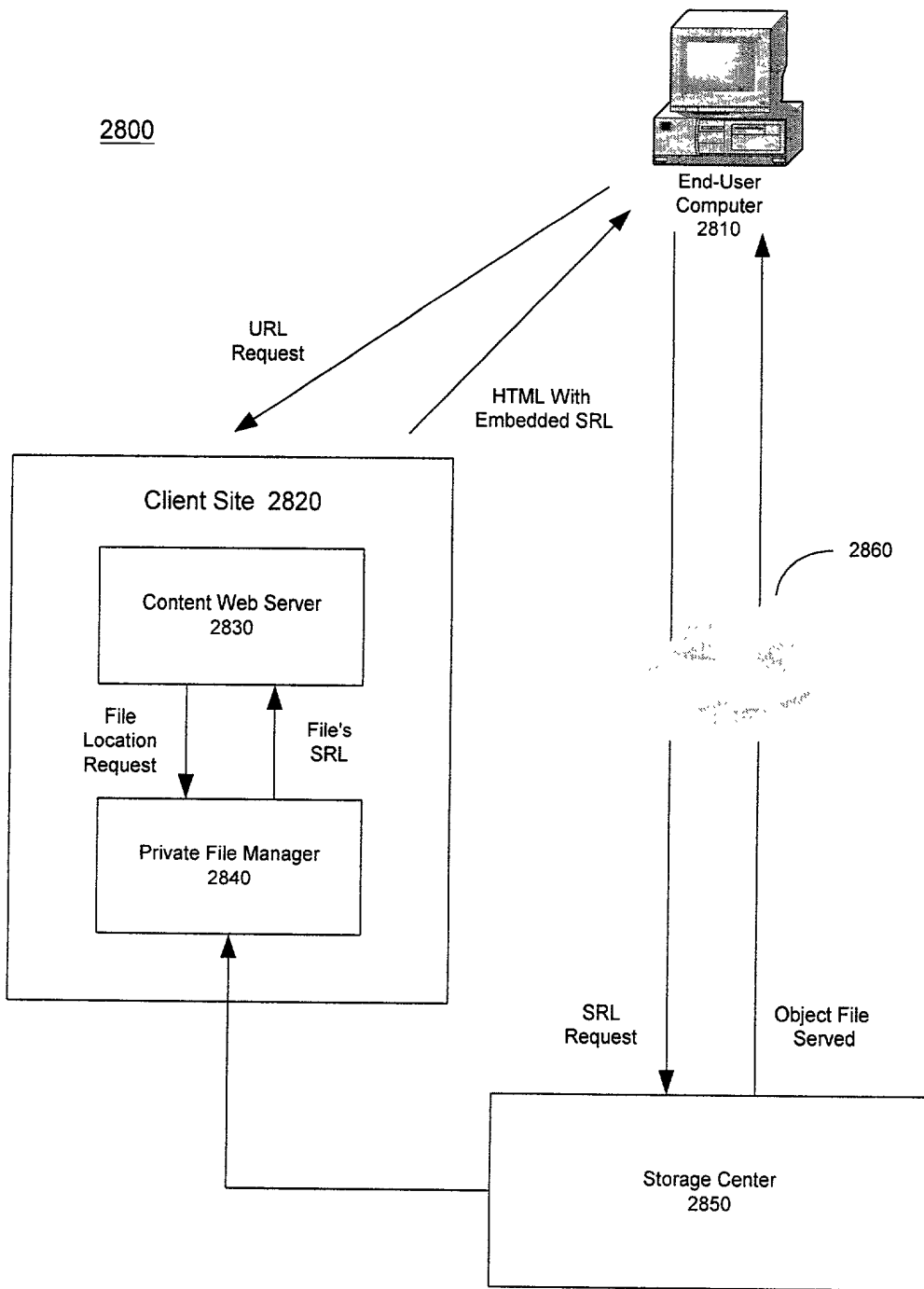
**Figure 24**



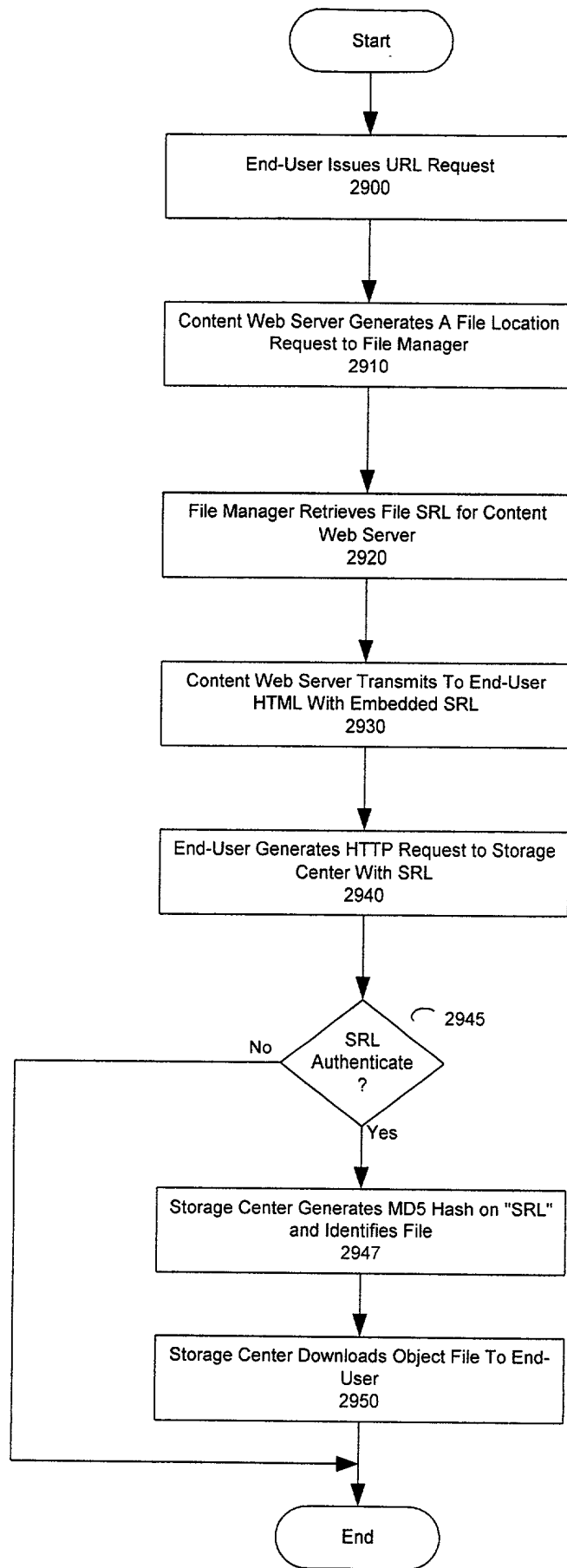
**Figure 25**



**Figure 26**



**Figure 27**



**Figure 28**

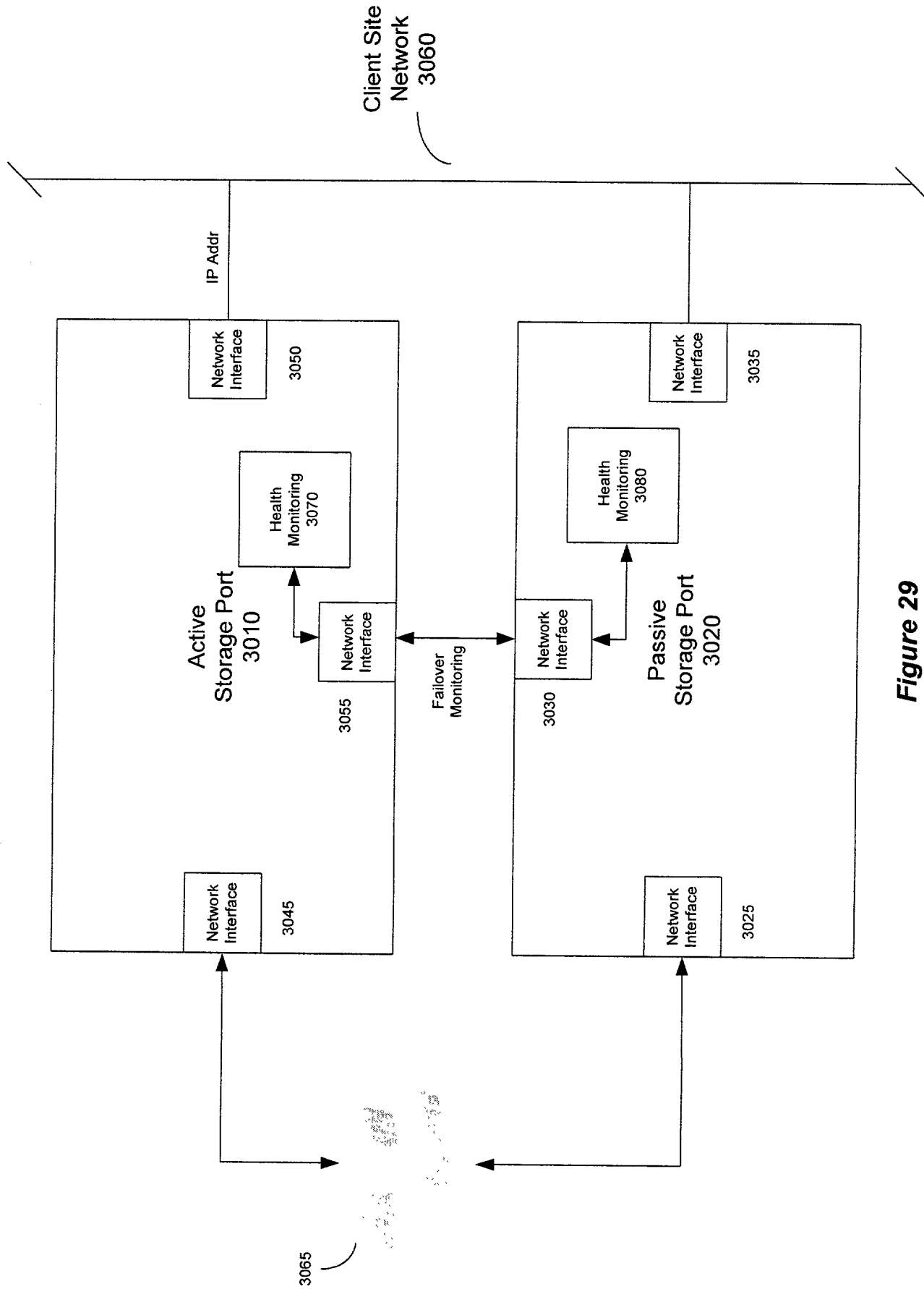
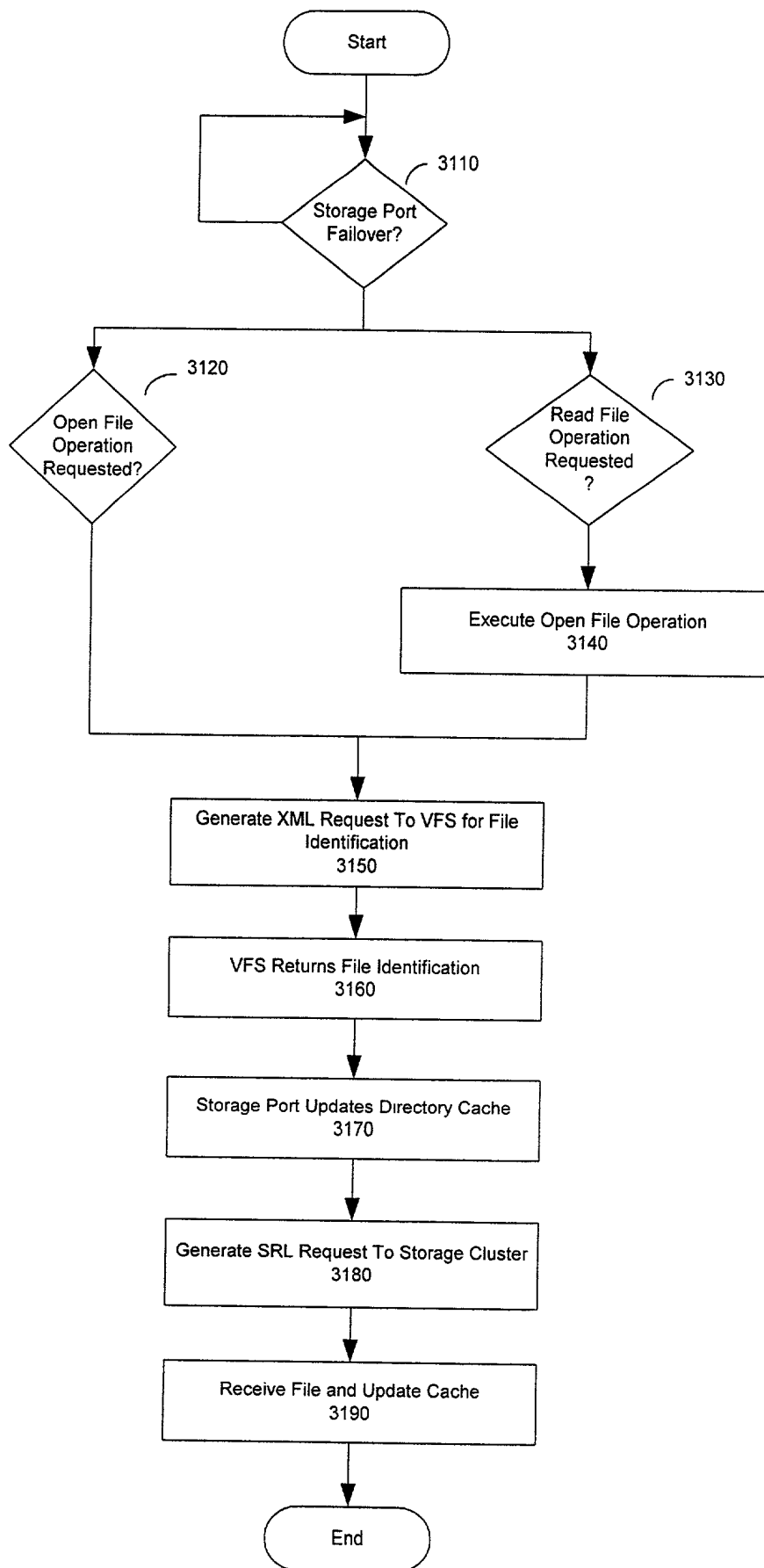
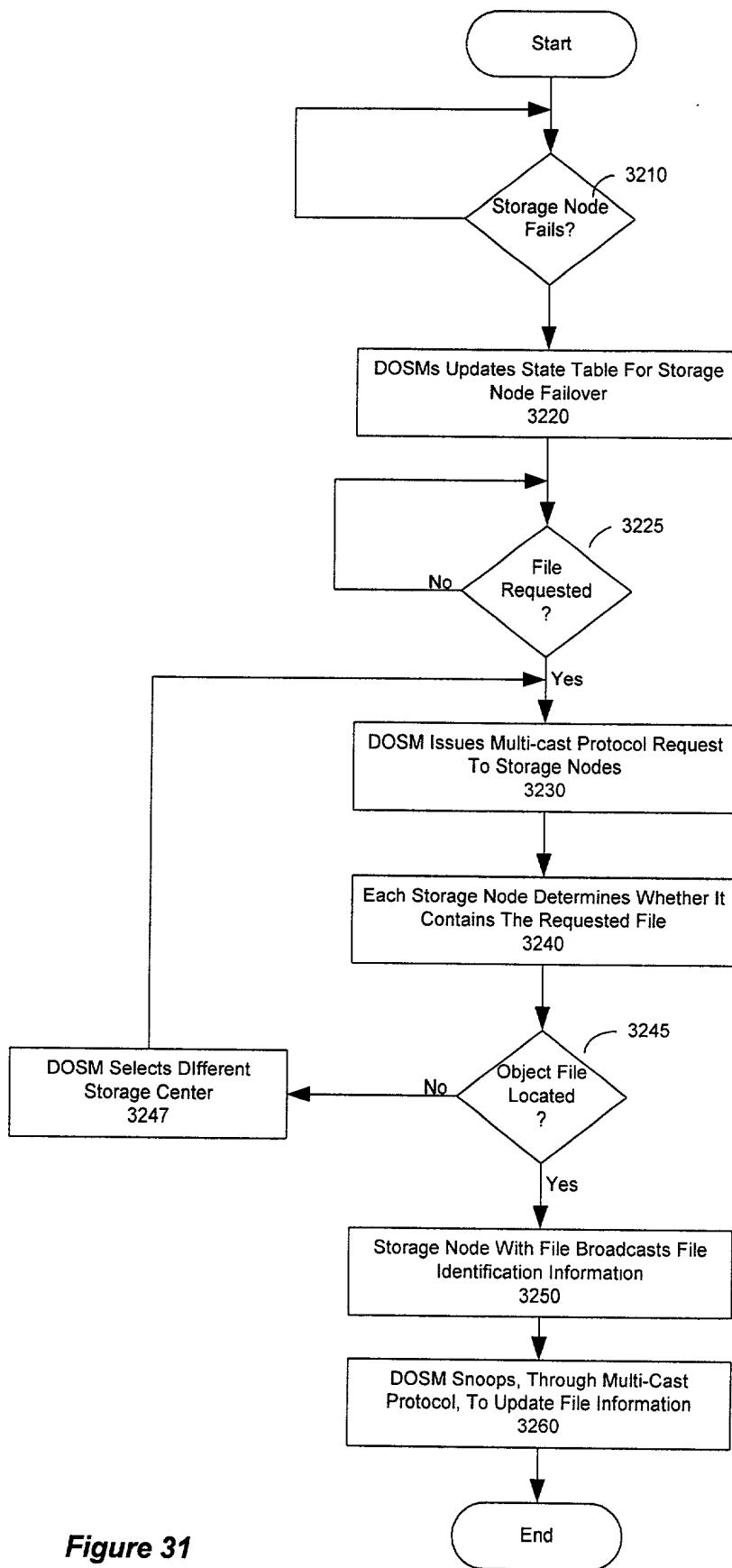


Figure 29



**Figure 30**



**Figure 31**